OF ILLINOIS
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1959

PETROLEUM INDUSTRY IN ILLINOIS, 1958

Part I. Oil and Gas Developments
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Alfred H. Bell
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BULLETIN 87

ILLINOIS STATE GEOLOGICAL SURVEY
JOHN C. FRYE, *Chief*
URBANA, ILLINOIS

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Urbana, Illinois 1959

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ALFRED H. BELL, RICHARD F. MAST, MARGARET O. OROS,
CARL W. SHERMAN, AND JACOB VAN DEN BERG

ABSTRACT

Illinois produced 80,779,000 barrels of oil in 1958, an increase of 5 percent over the amount produced in 1957. Fifty-three percent of the production (42,923,000 barrels) was estimated to have resulted from secondary recovery by waterflooding in 1958, the first year that secondary oil has accounted for more than half of the state's annual oil production.

Forty-five percent of the 2,291 new holes drilled were completed as producing wells. Seven oil pools, two gas pools, 48 extensions to pools, and 14 new pay zones in existing pools were discovered in 1958.

Five pools had extensive development during 1958. None of the nine discovered appears to be significant.

During 1958 a total of 443 controlled secondary recovery projects were reported in operation in Illinois. The oil produced from these projects amounted to approximately 40,883,000 barrels, and an additional 2,040,000 barrels of oil was estimated to have been produced by dump flooding. At the end of 1958 the total cumulative waterflood oil produced in Illinois was 224,147,000 barrels.

Pressure maintenance projects added 1,200,000 barrels of oil to the state's production but that was not considered as secondary oil.

Reserves are estimated at 624.8 million barrels as of January 1, 1959, 42.5 million barrels less than the estimate for January 1, 1958.

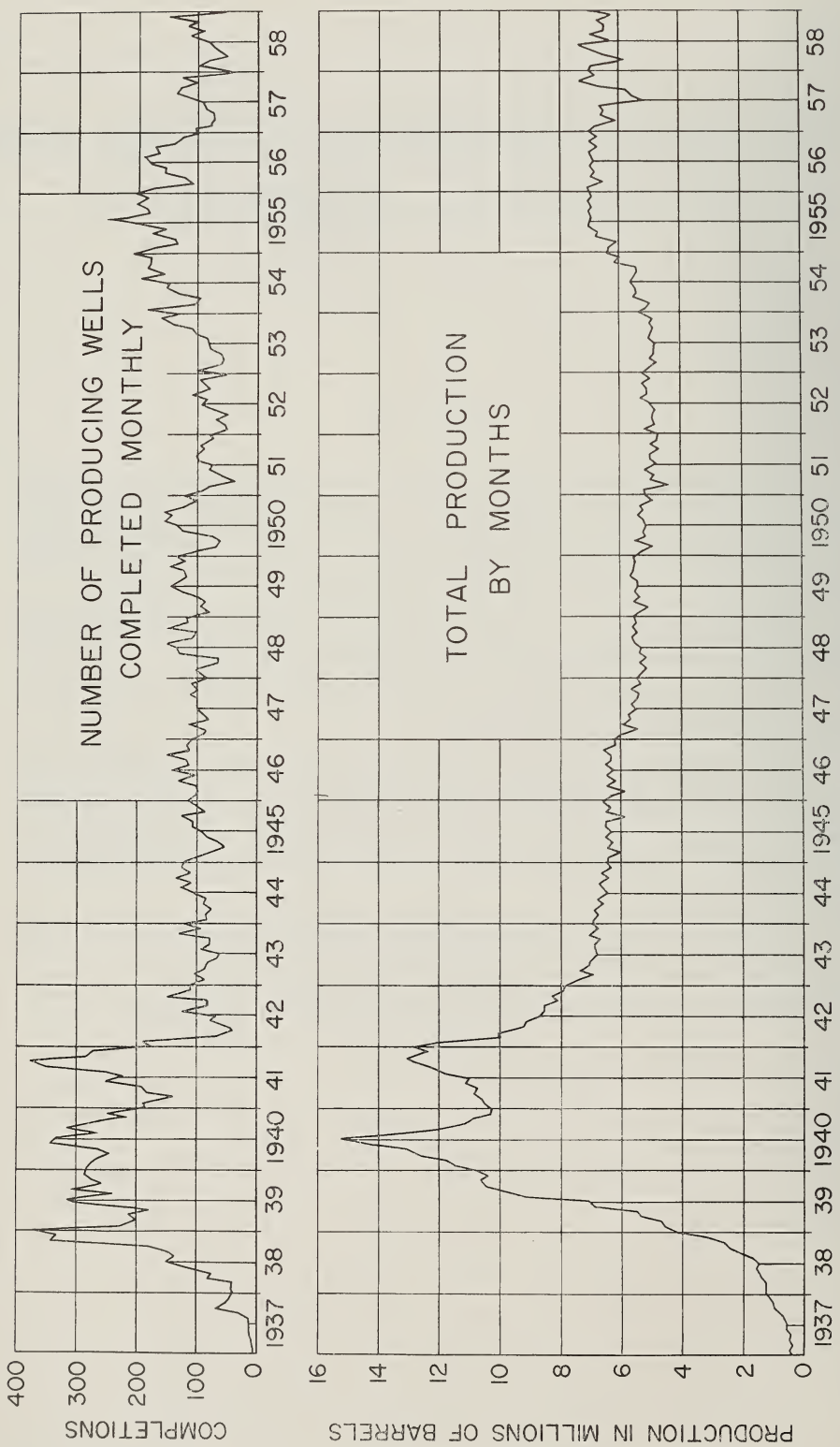

Fig. 1. — Number of producing wells and oil production in Illinois, 1937 through 1958.

PART I

OIL AND GAS DEVELOPMENTS

ALFRED H. BELL, JACOB VAN DEN BERG, AND MARGARET O. OROS

INTRODUCTION

This summary report of oil and gas development in Illinois for 1958 gives information on production (both primary and secondary), economics, exploratory drilling, discoveries, geologic occurrence of oil and gas, and gas storage. Two maps (pls. 1 and 2) showing oil and gas pools and waterflood projects, on a scale of one-eighth inch to the mile, are included.

This year, for the first time, all Illinois oil and gas pools are listed alphabetically (tables 11 and 12) and their location by section, township, and range are included in the production tables instead of being given separately.

The list of oil and gas producing strata given in Bulletin 83 (1956) is being revised and will be issued separately as a circular.

Virginia H. Kline, one of the principal authors of the Illinois oil and gas annual reports since 1944, had begun compilation of the tables appearing in this bulletin before her death, February 5, 1959.

We gratefully acknowledge the cooperation of the many oil companies and individuals who contributed basic data for this report. Lester L. Whiting of the Illinois State Geological Survey Oil and Gas Section assisted in the preparation of the section on estimated petroleum reserves and, with Wayne F. Meents of the same section, prepared the part on gas and gas products. Ronald A. Younker and Richard H. Howard, also of the Survey staff, assisted in preparing the report.

Part II on waterflood operations was prepared by Carl W. Sherman, Head of the Petroleum Engineering Section, and Richard F. Mast. Tables and maps are based on data furnished by the oil operators through the Illinois Secondary Recovery and Pressure Maintenance Study Committee of the Interstate Oil Compact Commission.

PRODUCTION AND ECONOMICS

Illinois in 1958 produced 80,779,000 barrels of oil* (table 11), an increase of 5 percent over the 76,649,000 barrels produced in 1957, and remained in eighth place among the oil producing states.

Part of the 1958 increase in oil production resulted from a return to normal production rates following a three-month refinery strike in the summer of 1957. Continued expansion of secondary recovery operations has tended to compensate for the decline in production rate due to decreased drilling and lack of significant new discoveries.

The annual oil production in Illinois, 1937 through 1958, is shown in figure 1.

Daily average production by months during 1958 was as follows:

Month	*Barrels*	*Month*	*Barrels*
January	223,581	July	227,710
February	208,071	August	211,645
March	213,774	September	218,800
April	224,467	October	217,484
May	240,903	November	210,733
June	213,567	December	243,161

For the first three months of 1958 most of the crude oil in Illinois was selling for $3.00 per barrel, although some was selling at $3.15. Early in April a flat price of $3.00 per barrel for all Illinois crude oil went into effect and remained at that figure for the remainder of the year. Value (at the wells) of crude oil produced in Illinois in 1958 was about $242,337,000, and with the value of natural gasoline and liquefied petroleum gas extracted from Illinois natural gas, estimated at $2,000,000, totals $244,337,000.

DRILLING AND DEVELOPMENT

A total of 2,291 wells was drilled for oil and gas in Illinois in 1958 (tables 1 and

*Illinois production figures from Illinois Basin Oil Scouts Association monthly reports, which are based on pipeline runs.

2)†, a decrease of 11 percent from the 2,585 wells drilled in 1957. The wells completed in 1958 included 982 oil wells, 48 gas wells, 677 dry holes in pools, and 584 unsuccessful wildcats. No gas was marketed from the gas wells. Table 3 gives production by counties for 1958.

The percentage of successful well completions—which had decreased from 55 percent in 1955 to 45.5 percent in 1956, then to 41 percent in 1957—took a turn for the better and increased to 45 percent in 1958. The percentage of total wildcat completions showed an opposite trend. It increased from 22 percent in 1955 to 28 percent in 1956, then to 30.6 percent in 1957, and decreased to 28 percent in 1958.

Wells were drilled for oil or gas in 59 counties. In 18 of them there was only wildcat drilling, but 41 had pool development drilling (table 2).

Christian County ranked first in number of completions with 174, and was followed by White, Wayne, Hamilton, Jasper, Clay, Crawford, and Gallatin Counties, each of which had more than 100 completions in 1958. These eight counties accounted for 47 percent of all wells completed.

Pool development wells were widely scattered in 1958, although (with the exception of Christian County) most drilling was in the southern part of the basin. Only four pools had 50 or more new producing wells: Clay City Consolidated had 70; Main Consolidated, 64; Dale Consolidated, 55; and Mt. Auburn Consolidated, 52. Only 7 other pools had more than 25 new producing wells completed in 1958.

Depths of producing wells drilled in 1958 ranged from about 270 to 4,100 feet. Average depth of all wells drilled was about 2,270 feet. The deepest hole drilled was a dry test completed at a total depth of 5,445 feet in Hamilton County (table 8).

Several areas of pool development in 1958 deserving special attention are Dale Consolidated pool in Franklin, Hamilton, and Saline Counties, Gila pool in Jasper County, Kenner pool in Clay County, Mt. Auburn Consolidated pool in Christian County, and Omaha pool in Gallatin County.

†Well completion figures are based on reports received from the Illinois Basin Oil Scouts Association. An undetermined number of additional wells was completed, for the most part in waterflood areas.

Table 1.—Well Completions and Production Since January 1, 1936

Period of time	Number of completions[a]	Number of producing wells	Production (M bbls)[b]		
			New fields	Old fields[c]	Total
1936	93	52			4,445
1937	449	292	2,884	4,542	7,426
1938	2,536	2,010	19,771	4,304	24,075
1939	3,617	2,970	90,908	4,004	94,912
1940	3,755	3,080	142,969	4,678	147,647
1941	3,807	2,925	128,993	5,145	134,138
1942	2,017	1,179	101,837	4,753	106,590
1943	1,791	1,090(20)[d]	77,581	4,675	82,256
1944	1,991	1,229(12)	72,946	4,467	77,413
1945	1,763	1,094(15)	70,839	4,371	75,210
1946	2,362	1,387(17)	70,174	5,123	75,297
1947	2,046	1,102(22)	61,455	5,004	66,459
1948	2,489	1,316(21)	59,623	5,185	64,808
1949	2,741	1,447(32)	58,571	5,930	64,501
1950	2,894	1,328(23)	55,794	6,234	62,028
1951	2,383	947(23)	54,147	6,097	60,244
1952	2,077	854(35)	53,727	6,344	60,071
1953	2,161	1,161(88)	51,924	7,101	59,025
1954	3,254	1,896(107)	59,130	7,810	66,940
1955	3,885	2,164(62)	72,016	9,115	81,131
1956	3,640	1,742(85)	71,645	10,669	82,314
1957	2,585	1,114(46)	66,751	9,898	76,649
1958					
Jan.	216	99(6)[d]	6,014	878	6,892
Feb.	148	78(2)	5,109	742	5,851
Mar.	125	51	5,668	882	6,550
Apr.	137	64(3)	5,803	894	6,697
May	190	76(2)	5,820	904	6,724
June	202	79(3)	5,511	860	6,371
July	210	114(3)	6,003	896	6,899
Aug.	217	92(3)	5,641	881	6,522
Sept.	246	115(6)	5,536	958	6,494
Oct.	196	101(1)	5,697	974	6,671
Nov.	287	146(5)	5,385	893	6,278
Dec.	117	51(2)	5,786	1,099	6,885
Total	2,291	1,066(36)	67,973	10,861	78,834

[a] Includes only oil and gas producers and dry holes, no service wells.
[b] Production figures based on Illinois Basin Scout Association's Pipe Line Production Report.
[c] Includes Devonian production at Sandoval and Bartelso.
[d] Figures in parentheses refer to number of producing wells included in totals which had previously been completed as dry holes.

Dale Consolidated Pool

Dale Consolidated pool in Franklin, Hamilton, and Saline Counties had 58 producing wells completed in 1958, 51 of them in Hamilton County and 48 producing from the Aux Vases. Most of the completions are in Flannigan and eastern Twigg Townships. Although initial productions ranged from four to 950 barrels of oil per day, the average was about 145 barrels.

The Dale pool was discovered in March 1940. As a result of subsequent development and consolidations with other pools in the area, the present Dale Consolidated pool has more than 17,000 acres of proven production and more than 1,300 producing wells. Unlike the other pools discussed, development of Dale Consolidated has been fairly steady over the years. There was a significant increase in 1955 when 119 producing wells were completed, the most in any year since 1942. From 1955 to 1958, more producing wells were completed in the pool than in any other equal period since the first four years, 1940 to 1944.

Gila Pool

Gila pool in Jasper County aroused an unusual amount of interest in the first half of 1958. The pool, which produces from the McClosky Limestone, was discovered in November 1957 by completion of a small producer, the only well in the pool at the close of 1957. In January 1958 a well was completed with initial production of 169 barrels of oil per day. During the year, 26 producing wells were completed with initial productions averaging about 118 barrels per day, but ranging from four to 312 barrels. Development appeared essentially complete by the end of 1958.

The Gila pool, with 349,055 barrels of oil, had more production in 1958 than the combined production of all the other pools in the county with the exception of the Jasper County portion of the Clay City Consolidated pool. The Gila pool is within and near the eastern boundary of the deep part of the Illinois Basin and is several miles north of the principal production in that area.

Kenner Pool

Kenner pool in Clay County was discovered in 1942. By the end of 1945, 41 producing wells had been completed, mostly in Bethel Sandstone, and it appeared that development of the pool was essentially completed. From 1946 through 1957 only ten producing wells were completed, but in 1958 interest in the pool was revived and 28 wells were completed, nearly all of them producing from Aux Vases Sandstone. The proven area of Aux Vases production increased from 40 acres at the end of 1957 to 300 acres at the end of 1958.

Initial productions of wells completed in the pool in 1958 averaged about 135 barrels per day and ranged from eight to 342 barrels. The 1958 production of 319,056 barrels of oil is nearly double that of the highest previous annual production of 167,455 barrels in 1945.

Mt. Auburn Consolidated Pool

The Mt. Auburn Consolidated pool, which is located in Christian County and which produces from limestone of Silurian age, was discovered in 1943, but by the end of 1953 only five producing wells had been completed. In March 1954, the Mt. Auburn Central and Mt. Auburn East pools were discovered, and in the same year the two pools were consolidated into Mt. Auburn Consolidated. By the end of 1954, the pool had 68 producers. During the three-year period from 1955 through 1957, only 44 producing wells were drilled in the pool, but in 1958 activity again increased, and 54 producing wells were completed. Initial productions averaged a little more than 100 barrels per day and ranged from four to 416 barrels of oil.

Several pools near the Mt. Auburn Consolidated pool also have been extensively developed during recent years. At the end of 1958, 25 producing wells had been completed in the Blackland pool, 35 wells in the Edinburg West pool, and 102 wells in the Kincaid Consolidated pool. Production in the Blackland pool is also obtained from Silurian limestone. The Edinburg West production is from rocks of Devonian and Silurian age and the Kincaid pool produces from a Devonian dolomitic sandstone.

TABLE 2.—SUMMARY OF DRILLING AND INITIAL PRODUCTION BY COUNTIES, 1958[a]

County	Number of wells drilled						Total initial production		Footage drilled	
	Total completions	Total producing		Total dry holes						
		Oil	Gas	In pools	Wildcat near[b]	Wildcat far[c]	Oil (bbls)	Gas (MMcf)	Producing wells	Total
Adams	7	0	2	0	0	5	0	0.233	1,062	4,202
Bond	40	13	0	8	15	4	481	0	15,828	59,531
Brown	2	0	0	0	0	2	0	0	0	1,135
Cass	1	0	0	0	0	1	0	0	0	975
Champaign	1	0	0	0	0	1	0	0	0	550
Christian	174	97	0	48	14	15	9,113	0	181,947	333,122
Clark	72	38	0	17	9	8	1,967	0	56,251	88,845
Clay	119	63	0	39	16	1	5,729	0	176,304	340,326
Clinton	56	12	0	17	13	14	583	0	24,845	101,787
Coles	54	14	5	17	10	8	156	5.550	15,181	61,569
Crawford	111	64	0	37	9	1	2,646	0	72,111	137,658
Cumberland	4	1	0	0	1	2	40	0	1,196	9,458
DeWitt	1	0	0	0	0	1	0	0	0	2,508
Douglas	28	9	1	9	2	7	670	1 616	16,485	41,453
Edgar	20	2	2	7	4	5	9	0.289	1,544	9,361
Edwards	27	11	0	12	4	0	631	0	34,143	84,866
Effingham	31	8	0	9	12	2	745	0	20,280	79,477
Fayette	31	14	0	8	5	4	392	0	24,723	60,453
Franklin	50	21	0	13	13	3	1,924	0	63,505	153,782
Gallatin	101	70	0	22	8	1	12,949	0	179,801	280,524
Greene	1	0	0	0	0	1	0	0	0	615
Hamilton	128	53	0	43	30	2	6,426	0	178,620	424,452
Hancock	3	2	0	1	0	0	9	0	743	1,143
Iroquois	1	0	0	0	0	1	0	0	0	565
Jackson	2	0	0	0	1	1	0	0	0	4,408
Jasper	122	54	0	34	24	10	4,904	0	153,290	346,092
Jefferson	66	23	0	24	12	7	1,496	0	57,243	174,646
LaSalle	2	0	0	0	0	2	0	0	0	7,281
Lawrence	77	50	0	23	3	1	3,247	0	81,381	132,141
McDonough	5	2	0	2	1	0	2	0	870	2,251
Macon	14	4	0	7	3	0	207	0	8,225	28,756

Macoupin	39	13	3	6	11	6	214	2.229	7,780	23,017
Madison	9	0	0	1	0	8	0	0	0	10,768
Marion	68	25	3	22	16	2	1,088	10.650	68,325	161,207
Mason	1	0	0	0	0	1	0	0	0	1,400
Menard	1	0	0	0	0	1	0	0	0	1,597
Montgomery	19	2	1	2	4	10	10	0.023	2,065	10,669
Morgan	2	0	1	0	0	1	0	1.130	272	1,607
Moultrie	6	0	0	0	0	6	0	0	0	14,448
Peoria	1	0	0	0	0	1	0	0	0	1,801
Perry	22	8	0	5	6	3	104	0	9,242	29,556
Piatt	10	0	0	0	0	10	0	0	0	22,669
Pike	12	0	5	2	3	2	0	3.248	0	7,569
Pulaski	3	0	0	0	0	3	0	0	0	2,140
Randolph	13	1	0	1	4	7	3	0	2,306	21,470
Richland	61	28	0	24	9	0	1,374	0	87,094	190,569
St. Clair	37	0	24	1	2	10	0	47.778	8,897	25,847
Saline	77	30	0	33	14	0	6,157	0.250	87,759	232,739
Sangamon	16	0	0	5	2	9	0	0	0	27,642
Schuyler	7	0	0	0	0	7	0	0	0	4,581
Shelby	16	3	0	3	2	8	89	0	6,106	33,630
Tazewell	7	0	0	0	0	7	0	0	0	9,865
Vermilion	1	0	0	0	0	1	0	0	0	1,251
Wabash	87	40	0	36	11	0	2,132	0	94,343	210,538
Washington	81	24	0	23	18	16	960	0	31,923	138,153
Wayne	155	87	0	49	17	2	6,010	0	282,909	506,495
White	170	92	1	63	12	2	6,060	1.500	262,723	496,967
Whiteside	1	0	0	0	0	1	0	0	0	270
Williamson	18	4	0	4	7	3	155	0	11,226	41,271
Total	2,291	982	48	677	347	237	78,682	72 996	2,328,548	5,203,668

[a] Does not include input wells, salt-water disposal wells, or old wells worked over.
[b] Wells drilled between one-half mile and two miles from production.
[c] Wells drilled more than two miles from production.

Table 3.—Production by Counties, 1958

County	M bbls	County	M bbls
Adams	0*	Lawrence	6,196
Bond	615	Macon	80
Christian	1,757	Macoupin	9
Clark-		Madison	344
Cumberland	1,730	Marion	7,171
Clay	3,605	Montgomery	3
Clinton	4,779	Morgan	0**
Coles	554	Moultrie	10
Crawford	2,999	Perry	61
Douglas	316	Pike	0*
Edgar	90	Randolph	179
Edwards	1,721	Richland	2,198
Effingham	427	St. Clair	7
Fayette	14,089	Saline	1,196
Franklin	2,175	Sangamon	30
Gallatin	2,377	Shelby	43
Hamilton	2,912	Wabash	3,101
Hancock-		Washington	917
McDonough	56	Wayne	6,529
Jackson	0**	White	8,083
Jasper	1,731	Williamson	59
Jefferson	2,630	Total	80,779

* Only gas.
** All wells abandoned or temporarily shut down.

Omaha Pool

The Omaha pool in Gallatin County, discovered in 1940, has had sporadic development. At the end of 1954, 47 producing oil wells had been completed, 19 in three Pennsylvanian sandstones, 24 in the Palestine Sandstone, and four in Tar Springs Sandstone. In 1955 the Bethel and Aux Vases Sandstones were added to the pays in the pool, one well being completed as an Aux Vases producer and one as a dual completion in the Aux Vases and Bethel. In addition three wells were completed in the Pennsylvanian and two in the Tar Springs. In the next two years only one producing well was completed, in the Pennsylvanian. In 1958, 42 producing wells were completed in the pool, 38 of them producing from the Aux Vases. The Ohara Limestone and Rosiclare Sandstone were added to the pays in the pool during the year.

The average initial production for all the wells completed in 1958 was about 270 barrels of oil per day, although three wells had initial productions of 1,000 or more barrels per day. The production for the Omaha pool in 1958 was 335,618 barrels, the highest since 1941. The proven productive area of the pool at the end of 1958 was about 1,070 acres. The structural dome on which the pool is located is exceptional in that igneous rock is found in intrusive contact with the producing sands.

Exploratory Drilling

Wildcat wells were drilled in all of the 59 counties where drilling was done in 1958, except in Hancock County, and 18 counties had only wildcat drilling. New pools were discovered in eight counties: two in Macoupin County and one each in Clinton, Coles, Edgar, Effingham, Richland, Washington, and Wayne (table 5).

Of the 2,291 wells drilled in 1958, 639 (28 percent) were wildcats, whereas in 1957, 788 (30 percent) of the 2,585 wells drilled were wildcats (table 4). The 1958 wildcats included 241 drilled more than two miles from production (wildcat far), four of which discovered new pools; in other words, the wildcat far wells were about 1.7 percent successful (table 5). The 398 wildcat wells drilled between one-half mile and two miles from production (wildcat near) discovered five new pools and 47 extensions to pools, making the wildcat near wells 13.1 percent successful. In addition, one extension was discovered by working over a well previously completed as a dry hole.

Table 4.—Wildcat Wells Drilled in 1958

Category	Total	Producers	Percentage successful
Wildcat near[a]	398	52[c]	13 1
Wildcat far[b]	241	4	1.7
	639	56*	8 8

[a] From ½ mile to two miles from production.
[b] More than two miles from production.
[c] Five of the wildcat near producers were new-pool discovery wells.
* One of the extension wells listed in table 5 was originally completed as a dry hole and later worked over.

The seven new oil pools and two new gas pools are listed in table 5 and shown in figure 2. The 48 extensions to pools are listed in table 6, and the 14 new pays in table 7.

Table 5.—Discovery Wells of New Pools, 1958

Line no.	Pool	County	Company and farm	Location	Total depth (ft)	Producing formation	Depth to top (ft)	Initial production [a] (bbls)	Date of completion	No. wells producing in pool 12/31/58
1	Ashmore S	Coles	E Zink, Goble 1	19-12N-11E	435	Pennsylvanian	420	3	1-7	13 [b]
2	Bowyer	Richland	P. Fulk, Stoltz 1	35-5N-14W	2887	Rosiclare	2883	98	9-2	1
3	Carlinville S	Macoupin	Geneseo Dev. Co., B. Mayer 1	13-9N-7W	552	Pennsylvanian	539	6; 1	8 19	1
4	Coil N	Wayne	Pure Oil Co., S. A. Coil 1	6-1S-5E	2942	Aux Vases	2841	14; 20	9-2	1
5	Coulterville N	Washington	R. H. Robben, Menafee 1	36-3S-5W	2412; PB 2365	Silurian	2290	48; 358	6-17	2
6	Gillespie W (gas)	Macoupin	M. D. Burkett, C. Schmidt 1	22-8N-7W	540	Pennsylvanian	525	610,000 C.F G.	11-18	1 [c]
7	Hord N.	Effingham	Farrar & W. Duncan, Webster 1	34-6N-6E	2470; PB 2440	Cypress	2420	128; 180	10-14	2
8	Kansas (gas)	Edgar	W. T. Larson, Hawkins 1	26-13N-14W	422	Pennsylvanian	411	284,000 C.F.G.	12-16	3
9	New Baden E	Clinton	Brand Oil Co., Weiberg Bros. 1	9-1N-5W	2028	Silurian	1925	48	10-14	1

[a] Oil; water.
[b] Includes 3 gas wells, all shut in.
[c] Shut in.

TABLE 6.—DISCOVERY WELLS OF EXTENSIONS TO POOLS, 1958
C = Consolidated

Line no.	Pool	County	Company and farm	Location	Total depth (ft)	Producing formation	Depth to top (ft)	Initial production[a] (bbls)	Date of completion
1	Ashmore S	Coles	W. Reasor, Jr., Coyle 1	1–12N–10E	418; PB 408	Pennsylvanian	390	2,000,000CFG	11–11
2	Ashmore S	Coles	Parrish & Ensminger, P. McDivitt 1	1–12N–10E	461	Pennsylvanian	410	5	9–30
3	Ashmore S	Coles	E. Zink, L. O. Walton 1	13–12N–10E	474	Pennsylvanian	442	25;1,000,000 CFG	5–20
4	Ashmore S	Coles	E. Zink, Miller 1	18–12N–11E	443	Pennsylvanian	419	1,050,000CFG	11–1
5	Brown	Marion	Nat'l Assoc. Pet., D. Perrine 1	20–1N–1E	2130; PB 861	Petro	856	3,500,000CFG	11–4
6	Carlinville	Macoupin	W. C. Stribling, Denby 1	18–9N–7W	373	Pennsylvanian	364	1,250,000CFG	11–25
7	Clay City C	Wayne	Commonwealth Pet. Co., Holland-Clem Cons. 1	20–1N–7E	3205	McClosky	3199	52	4–29
8	Clay City C	Wayne	J. H. Miskell-Skiles, Cunningham 1	17–2S–7E	3442; PB 3415	McClosky	3401	10	9–16
9	Clay City C	Richland	J. Inglis, M. Runyon 1	25–3N–9E	3189; PB 3115	Rosiclare	3106	25; 75	9–2
10	Clay City C	Richland	P. Fulk, J. Alvord 1	26–3N–9E	3140; PB 3115	Rosiclare	3082	11	10–7
11	Cordes	Washington	Eastern Pet. Co., Jones 1	26–3S–3W	1278	Bethel	1263	20; 10	5–27
12	Dale C	Saline	C. E. Brehm, Burnett-Johnson 1	21–7S–5E	3439; PB 3253	Aux Vases	3218	69; 25	9–16
13	Dale C	Hamilton	Alva C. Davis, Stewart 1	32–5S–7E	3220	McClosky	3194	15	10–7
14	Fishhook	Adams	H. Lipe, R. Leezer 1	35–3S–5W	552	Silurian	545	185,000CFG	6–10
15	Freeburg	St. Clair	McCandlish & Gwaltney, W. Baltz 1	32–1S–7W	377	Cypress	343	2,200,000CFG	2–11
16	Freeburg	St. Clair	McCandlish & Gwaltney, L. Cortner 1	6–2S–7W	358	Cypress	343	162,000CFG	2–11
17	Gila	Jasper	F. Bolin, R. E. Watkins 2	5–7N–9E	2945; PB 2915	McClosky	2902	8; 20	6–24
18	Gila	Jasper	V. I. Helgen, N. Hester 1	28–8N–9E	2823; PB 2790	McClosky	2762	75	4–29
19	Gila	Jasper	Harvey & Poppenhouse, Diehl 1	5–7N–9E	2913; PB 2875	McClosky	2861	40; 35	3–25
20	Gila	Jasper	McMilam, R. Tucker 2	5–7N–9E	2920; PB 2907	McClosky	2890	40; 70	5–13
21	Goldengate C	Wayne	A. C. Davis, L. Wintzenburger 1	18–3S–9E	3434	Rosiclare; McClosky	3384; 3425	110	12–16
22	Harco	Saline	H. Lobree, J. Clarida 1	20–8S–5E	3040; PB 2915	Aux Vases	2883	42; 28	1–7
23	Harco	Saline	Indiana Farm Bureau, A. Edwards et al. 1	17–8S–5E	3163	Aux Vases	2917	12; 90	9–23

24	Harristown	Macon	D. Carroll, J. W. Jackson 1	11–16N–1E	2096	Silurian	2075	8; 8	6–24
25	Johnsonville C	Wayne	Kingwood Oil, S. E. Talbert 1	32–1N–6E	3305; PB 3153	Aux Vases	3123	33; 19	11–18
26	Kell	Jefferson	E. & G. Drlg. Co., H. Keneipp 1	5–1S–3E	2615	McClosky	2611	45	11–18
27	Kincaid C	Christian	J. Simpkins, O. Roberts 2	35–14N–3W	1845	Hibbard	1832	6	12–2
28	Kincaid C	Christian	J. Simpkins, V. Smith 1	23–13N–3W	1922; PB 1880	Hibbard	1856	118	1–21
29	Locust Grove S.	Wayne	Farrar, Hiedinger 1	20–1S–9E	3293	McClosky	3286	178	9–23
30	Mt. Auburn C	Christian	Reeter & Hirstein, F. H. Mulberry 1	20–15N–1W	1934	Silurian	1910	16; 30	3–4
31	Mt. Auburn C	Christian	Reeter & Hirstein, Stowers 1	26–15N–2W	1920	Silurian	1903	212	4–15
32	Mt. Auburn C	Christian	H. Mansfield, T. E. Deerer 1	34–15N–2W	1918	Silurian	1915	13; 170	9–23
33	Mt. Auburn C	Christian	H. F. Robison, R. Hobbs et al. 1	35–15N–2W	1902	Silurian	1892	224	6–3
34	New Harmony C	Wabash	R. Z. Morris, H. Bosecker 1	4–1S–13W	2767; PB 2680	Bethel	2520	130	3–4
35	Olney S	Richland	Ring & Kinsell, L. V. Kurtz 1	28–3N–10E	3182	McClosky	3167	110	2–18
36	Omaha	Gallatin	Nation Oil Co., Delahunt 1	5–8S–8E	2814; PB 2695	Aux Vases	2657	28	9–9
37	Parkersburg C	Richland	Don Baines, Forney 1	10–2N–14W	3174; PB 3110	McClosky	3078	28; 20	9–23
38	Posen S	Washington	Centralia Drlg., Kroll 1	34–3S–2W	1273; PB 1250	Bethel	1239	24; 50	7–22
39	Raleigh	Saline	Kewanee Oil, Harris 1	10–8S–6E	3188; PB 2790	Paint Creek	2744	40; 60	6–24
40	Raleigh S	Saline	Slagter Prod., S. Wilson 1	30–8S–6E	2932; PB 2825	Aux Vases	2788	4; 500,000 CFG	3–11
41	Ste. Marie	Jasper	M. L. Van Fossan, Geiger 1	6–5N–11E	2922; PB 2916	McClosky	2874	15; 15	6–17
42	Ste. Marie	Jasper	J. W. Rudy, Menke 1	6–5N–11E	2861	Rosiclare	2845	320	6–3
43	Sailor Springs C	Effingham	Jet Oil Co., Blunt 1	20–6N–7E	2987; PB 2890	McClosky	2872	150	11–11
44	Storms C	White	T. R. Lindsay, Martha Ferguson "A" 1	22–5S–10E	2736	Cypress	2704	22	1–14
45	Walpole	Hamilton	Athene Dev. Co., M. H. Lamar 1	22–6S–6E	3325; PB 3150	Aux Vases	3110	10; 70	7–1
46	Warrenton-Borton	Coles	C. Huthmacher, Dollar 1	6–13N–11E	268	Pennsylvanian	254	100,000CFG	10–21
47	Woburn C	Bond	F. E. Thompson, Mayfield 2	33–6N–2W	2308; PB 2300	Devonian	2282	128	9–9
48	Zenith N	Wayne	T. R. Lindsay, Anderson 1	20–6N–6E	3254; PB 3220	McClosky	3185	44; 120	10–21

[a] Oil; water.

TABLE 7.—DISCOVERY WELLS OF NEW PAYS IN POOLS, 1958
C = Consolidated

Line no.	Pool	County	Company and farm	Location	Total depth (ft)	Producing formation	Depth to top (ft)	Initial production[a] (bbls)	Date of completion
1	Ab Lake W	Gallatin	L. Kapp, Randell 1	6-9S-10E	2785; PB 2160	Tar Springs	2075	12	9-9
2	Centralia	Marion	Stoker and Botts, Johnson Comm. 1	19-1N-1E	1370; PB 844	Petro	765	20	8-26
3	Crossville W	White	Calvert Drlg. Co. et al., Stokes 1	16-4S-10E	3206	Rosiclare	3102	69; 5[b]	6-17
4	Elba	Gallatin	Tri-State Drlg. Co., Resiniger 1	21-8S-8E	2858	Cypress	2617	135[b]	9-30
5	Ina	Jefferson	F. L. Strickland, Gilbert 4	25-4S-2E	2803	Aux Vases	2682	75; 100	10-14
6	Kenner	Clay	Texas Co., M. A. Allison "C" 5	31-3N-6E	2829	Renault	2761	225, 139[c]	10-14
7	Locust Grove S	Wayne	Farrar Drlg. Co., Hiedinger 1	20-1S-9E	3293	McClosky	3286	178	9-23
8	Locust Grove S	Wayne	Farrar Drlg. Co., Metcalf 2	17-1S-9E	3350	Ohara	3248	130	10-28
9	McKinley	Washington	Jet Oil Co., Hunleth 9	20-3S-4W	1109; PB 1079	Cypress	1060	112	6-17
10	Oskaloosa	Clay	Texas Co., Gammon 1	34-4N-5E	2832; PB 2830	Aux Vases	2643	61; 11[b]	6-17
11	Raleigh	Saline	Kewanee Oil Co., Harris 1	10-8S-6E	3188; PB 2790	Paint Creek	2738	40; 60	6-24
12	Stewardson	Shelby	Doran Oil Prod., Chaffee 4	27-10N-5E	2024	Rosiclare	2021	35; 12[b]	8-5
13	Watson	Effingham	Slagter Prod. Co., Genaust 1	18-7N-6E	2445	McClosky	2434	210	7-22
14	Woburn C	Bond	Farrar Drlg. Co., Spindler-Farrar Comm. 8	10-6N-2W	1065	Renault	1047	20	7-22

[a] Oil and water.
[b] Producing from 2 pays.
[c] Producing from 3 pays.

Table 8.—Selected List of Unsuccessful Deep Tests, 1958
C = Consolidated

Line no.	Pool	County	Company and farm	Location	Total depth (ft)	Deepest formation	Depth to top (ft)	Date of completion
1		Brown	Aleshire & Groves—M. Callihan, Salrin 1	5-1N-3W	625	St. Peter	612	6-10
2		Cass	J. Zuercher, Krohe 1	12-18N-11W	975	Trenton	948	8-19
3	Mt. Auburn C	Christian	Reeter & Hirstein, J. Stowers 1-C	26-15N-2W	2,560	Trenton	2,477	5-13
4	New Memphis N	Clinton	Collins Bros., J. H. Goebel 1	28-1N-5W	2,915	Decorah	2,880	4-8[a]
5	Cooks Mills C	Coles	Kuykendall Drlg. Co., N. Herschberger 2	3-13N-7E	3,028	Devonian	2,957	10-28
6		Cumberland	Skiles Oil Corp., Tippett-McCandlish Comm. 1	5-10N-9E	3,957	Silurian	3,904	1-21
7		DeWitt	L. R. Stensel, L. D. Schwartz 1	30-21N-4E	2,508	St. Peter	2,372	10-21
8		Hamilton	Kewanee Oil Co., Wellen 1	1-4S-5E	5,445	Devonian	5,240	3-18
9		Jasper	J. W. Rudy, McDaniel 1	19-8N-10E	4,282	Silurian	4,222	11-18
10	Ina	Jefferson	Kewanee Oil Co., Jeff 2	23-4S-2E	3,521	Warsaw	3,466	3-4[b]
11		Kankakee	Natural Gas Storage Co., Schwark 7	32-30N-10E	5,005	Mt. Simon	2,540	[c]
12		LaSalle	Vickery Drlg. Co., Mathesius 1	32-35N-1E	3,556	Precambrian	3,532	4-22
13		LaSalle	A. C. Otto, Swensen 1	1-36N-5E	3,725	Precambrian	3,700	1-14
14	Staunton W	Macoupin	C. Kimzey, Thode 3	16-7N-7W	1,487	Devonian	1,484	10-7
15		Mason	Engelke & Engelke, Woodrow 1	9-22N-7W	1,400	Trenton	1,268	7-1
16		Menard	Beckham, Becker 1	13-19N-5W	1,597	Silurian	1,387	1-7
17		Mercer	Kelly, Fullerton 1	19-13N-4W	3,716	Precambrian	3,252	6-3[a]
18	Mt. Olive	Montgomery	Covington, Klekamp 1	29-8N-5W	1,819	Devonian	1,744	12-22
19		Peoria	Prentiss, F. Coon 1	25-11N-8E	1,801	New Richmond	1,690	2-4
20		Piatt	Richardson, Kelley 1	12-18N-6E	1,964	Trenton	1,864	11-18
21	Fishhook	Pike	Starr, Martin 4	32-3S-4W	930	St. Peter	929	8-19
22		Pike	Starr, Kline Hill West 2	7-4S-4W	1,055	St. Peter	1,045	8-19
23		Pike	Dorris & Lucht, Witty 1	31-6S-3W	1,109	St. Peter	608	4-15
24		Pulaski	Vaughn, Ragsdale 1	18-14S-1E	1,670	Silurian	1,654	11-4
25		St. Clair	Woofter Drlg. Co., Thouvenot 1	3-1N-8W	1,952	Trenton	1,871	2-25
26	Freeburg	St. Clair	McCandlish & Gwaltney, Stoneman 2	32-1S-7W	2,008	Trenton	1,916	10-21[d]
27		St. Clair	Guetterman, Valerius 1	7-1S-8W	1,404	Trenton	1,285	2-4
28	Lakewood	Shelby	Natl. Assoc. Pet. Co., Specht "A"	7-10N-3E	3,127	Silurian	3,076	6-17
29	Clarksburg	Shelby	Partlow & Cochonour, Davis 1	8-10N-4E	3,175	Devonian	3,091	3-4
30		Shelby	Nation Oil Co., Snapp 1	21-13N-4E	3,051	Devonian	2,972	4-29
31		Tazewell	Central Ill. Light Co., Moore 1	18-23N-6W	1,853	St. Peter	1,572	12-22
32		Vermilion	Carlson, Fawcett 1	25-17N-14W	1,251	Devonian	1,207	5-13
33	New Memphis S	Washington	Collins Bros., Brueggemann Comm. 1	21-1S-5W	2,914	Trenton	2,783	11-4

[a] Former dry hole drilled deeper.
[b] Plugged back and completed as oil producer.
[c] Drilled as test well for gas storage project. Completed 7-13-57. Plugged back for use as water withdrawal well.
[d] Plugged back and completed as gas producer.

At the end of 1958 the seven new oil pools had 18 oil wells and three gas wells. Except for Ashmore South with 10 oil wells and three gas wells, none of the new oil pools had more than two oil wells at the end of the year. The two new gas pools, Gillespie West and Kansas, had one and three gas wells, respectively, at the end of the year.

The distribution pattern of the new pools is shown in figure 2. Six of the pools are near the edges of the producing area of Illinois, and three are within the producing area nearer the deep part of the basin.

Four of the new pools are in sandstones of Pennsylvanian age. These include Ashmore South in Coles County, Kansas in Edgar County, and Carlinville South and Gillespie West, both in Macoupin County. Producing depths of the new Pennsylvanian pools range from about 420 feet in Ashmore South to about 540 feet in Carlinville South.

Three of the new pools are in sandstones of Mississippian age ranging from Cypress through Rosiclare. Included in this group are Hord North in Effingham County, Coil North in Wayne County, and Bowyer in Richland County. Thirteen of the 14 new pays also are of Mississippian age, eight in the Chester and five in the Ste. Genevieve Series. The other new pay is Petro Sandstone of Pennsylvanian age.

Two new pools, New Baden East in Clinton County and Coulterville North in Washington County, produce from limestone of Silurian age.

None of these discoveries appears to be significant.

A generalized geologic column for the southern Illinois oil region indicating principal producing strata is shown in figure 3.

A selected list of unsuccessful deep tests in pools and in wildcat areas is given in table 8. Many of these wells, although not deep in actual footage, are stratigraphically deep.

Geophysical exploration activity was not very appreciable in 1958 (table 9). The seismograph was the most common method used, but some gravity meter work also was done.

Because many small pools have been consolidated over the years, a number of original pool names have been discontinued. Table 10 lists such pools together with the date of their first consolidation and present pool assignment.

PRODUCTIVE ACREAGE

A total of 13,030 acres of proven production was added to Illinois oil and gas pools during 1958. The following table lists the acreage for the last two years and the increase in acreage for oil and gas wells:

Year	*Oil wells productive acreage*	*Gas wells productive acreage*
1957	550,305	30,425
1958	562,535	31,225
Added acreage	12,230	800

Pools discovered during 1958 account for only 260 acres of this new acreage.

Acreage figures are based on an assignment of 10 acres for each well producing from sandstone and 20 acres for each well producing from limestone. A well producing from more than one pay horizon has been assigned acreage for only one well, rather than for each pay.

Most of the new gas wells were capped because of the present lack of market.

ESTIMATED PETROLEUM RESERVES

The Illinois State Geological Survey estimates that on January 1, 1959, Illinois oil reserves that can be produced from wells now in existence, by methods now in use, total 624.8 million barrels. This is a decline of 42.5 million barrels from the estimate for January 1, 1958. The factors in this change are shown below:

	Millions of bbl.
Estimated reserves, January 1, 1958	667.3
Withdrawal by 1958 production	80.8
	586.5
Added by new drilling in 1957	22.1
	608.6
Added by upward revision	16.2
Estimated reserves, January 1, 1959	624.8

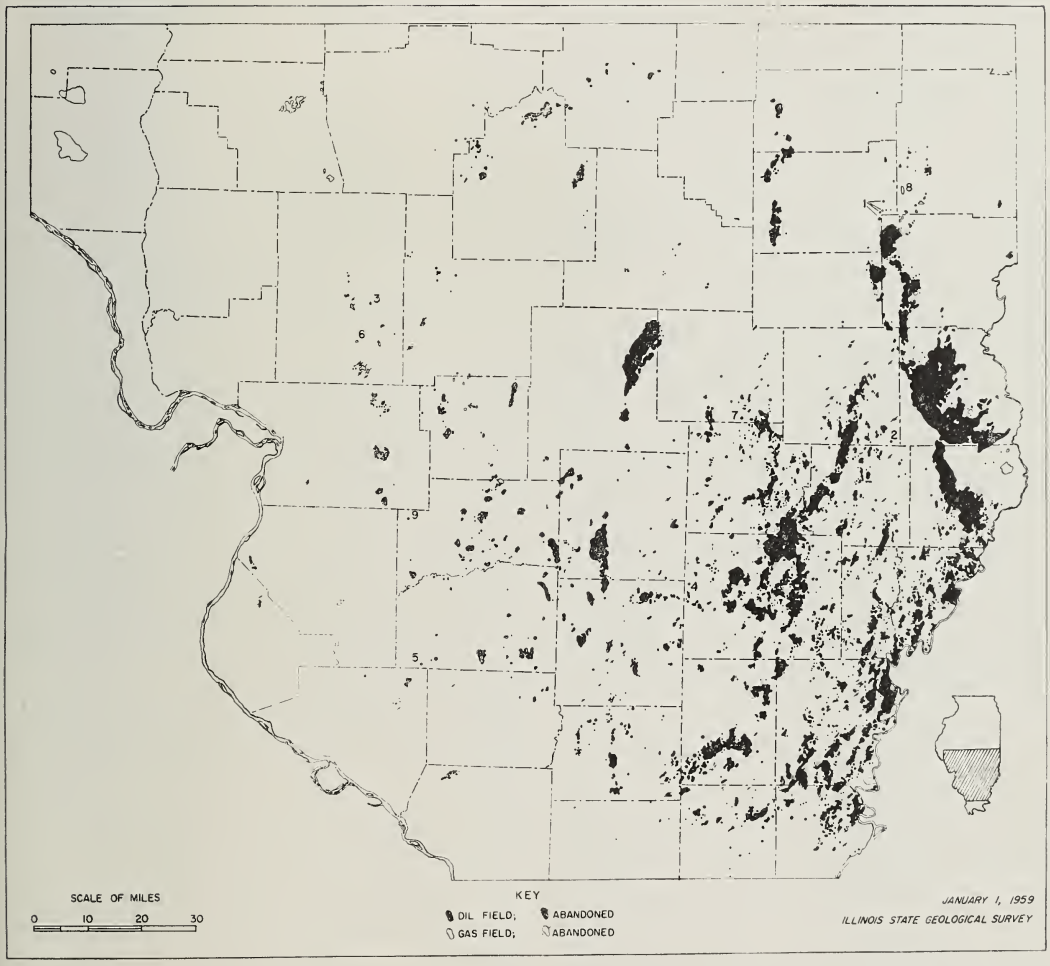

Fig. 2. — Oil and gas pools in Illinois. Numbers indicate new pools discovered in 1958 as listed here and in table 1.

1. Ashmore South
2. Bowyer
3. Carlinville South
4. Coil North
5. Coulterville North
6. Gillespie West (Gas)
7. Hord North
8. Kansas (Gas)
9. New Baden East

A total of 1,068 producing oil wells was completed during 1958, including 982 new wells and 86 work-over wells. Of the latter, 49 were former producers which were recompleted as producing wells, and 37 were former dry holes which were worked over and completed as producers. A majority of the producer-to-producer work-over wells were recompleted as producers from pay zones different from the original completions.

The estimated 16,237,000 barrels of oil reserves added by upward revision are due largely to secondary recovery projects. Revision of former estimates of oil reserves accounts for the balance.

Wells producing from formations of Mississippian age account for about 83 percent of the 22.1 million barrels of oil added by new drilling during the year. The remainder of the new reserves is distributed among strata of Pennsylvanian, Devonian, Silurian, and Ordovician age.

The seven new oil pools discovered during 1958 had 18 wells completed by the end of the year. Two of the pools are producing from Pennsylvanian sandstones, three from Mississippian sandstones, and two from Silurian limestone.

Table 9.—Number of Geophysical and Core Drilling Crews Active in Illinois During 1958 By Months

Month	Seismograph	Gravity meter	Magnetometer	Core drill
Jan.	1	0	0	0
Feb.	1	0	0	*
Mar.	1	0	0	*
Apr.	1	0	0	*
May	1	0	0	2
June	0	0	0	2
July	0	0	0	1
Aug.	1	0	0	2
Sept.	1	1	0	0
Oct.	0	1	0	2
Nov.	0	0	0	5
Dec.	0	0	0	5

* Unknown.

GAS AND GAS PRODUCTS

An estimated 30 to 35 billion cubic feet of gas was produced from Illinois wells during 1958 (table 12), either as solution gas or in separate gas reservoirs in the oil areas.

Approximately 1.225 billion cubic feet of gas was marketed in Illinois during the year; about 260 million cubic feet was dry gas obtained from gas wells within the producing oil fields and the remainder was casinghead gas from oil producers. About 45.2 million cubic feet of gas was distributed by operating companies in Carmi and Eldorado; the rest was delivered to pipeline outlets.

Some 4.35 billion cubic feet of solution gas from Illinois oil wells was processed during 1958 by the three principal operating companies, with the resultant production of 986,232 barrels of natural gasoline and allied products. Approximately 61,715,000 cubic feet of dry residue gas was returned to the producing formations, the remainder being used as plant or lease fuel. The amount of gas flared at the plants was insignificant. These figures do not include natural gasoline or allied products produced at one plant in Illinois which processes gas from outside the state and returns the dry residue gas to the pipeline.

In addition to the 4.35 billion cubic feet of metered solution gas processed, it is estimated that 10 to 15 billion cubic feet was flared at the wells during the year and about the same amount was used for operations on the leases.

Forty-eight new gas wells in twelve pools in eleven counties were completed during 1958 with a combined initial open flow capacity of 75,000,000 cubic feet daily. Sandstones in the lower part of the Pennsylvanian System and in the Cypress Formation of Mississippian age, and the Edgewood Dolomite of lower Silurian age serve as the reservoir rocks. None of this gas has been marketed for use away from the producing area.

TABLE 10.—POOLS INCORPORATED INTO OTHER POOLS BY CONSOLIDATION

C = Consolidated

Original pool name; first consolidation	Present pool assignment	Date of first consol.
Aden N.	Aden C	1944
Albion N	Albion C	1944
Allison-Weger	Main C	1955
Assumption N	Assumption C	1953
Barnhill E	Goldengate C	1944
Bend	New Harmony C	1952
Bennington.	Maple Grove C	1952
Bible Grove C	Sailor Springs C	1949
Bible Grove E; Bible Grove C	Sailor Springs C	1948
Birds	Main C	1955
Blairsville	Bungay C	1951
Bone Gap S	Bone Gap C	1952
Bonpas	Parkersburg C	1951
Bonpas W	Parkersburg C	1944
Boos; Dundas C	Clay City C	1941
Boos E; Willow Hill C	Clay City C	1947
Boos N	Clay City C	1948
Bourbon N.	Bourbon C	1958
Boyleston C	Clay City C	1948
Brownsville; Stokes-Brownsville	Roland C	1946
Burnt Prairie; Leech Twp.	Goldengate C	1947
Calvin	New Harmony C and Phillipstown C	1941
Calvin N	Phillipstown C	1948
Cantrell C	Dale C	1955
Cantrell N	Dale C	1956
Cantrell S; Cantrell C	Dale C	1953
Chapman	Main C	1954
Christopher C	Sessor C	1958
Cisne	Clay City C	1948
Cisne N.	Clay City C	1954
Clay City N	Clay City C	1954
Concord Central; Concord S C	Herald C	1952
Concord N	Concord C	1955
Concord S C	Herald C	1955
Cooks Mills E	Cooks Mills C	1956
Cooks Mills Gas	Cooks Mills C	1955
Cooks Mills N	Cooks Mills C	1955
Cottonwood	Herald C	1953
Cottonwood N.	Herald C	1953
Covington; Boyleston C	Clay City C	1944
Covington E	Clay City C	1948
Cowling.	New Harmony C	1947
Dead River	New Haven C	1950
Dix	Salem C	1954
Dubois W	Dubois C	1955
Dundas C	Clay City C	1948
Dundas E	Olney C	1958
Eldorado Central	Eldorado C	1954
Eldorado N	Eldorado C	1955
Ellery C	Goldengate C	1958
Ellery W; Ellery C	Goldengate C	1952
Enterprise	Clay City C	1941
Enterprise W	Clay City C	1941
Epworth C	Storms C	1957
Epworth E; Epworth C	Storms C	1951
Fairfield	Clay City C	1953
Fairfield E	Clay City C	1953
Flannigan	Dale C	1955
Flat Rock	Main C	1954
Flora	Sailor Springs C	1955
Friendsville	New Harmony C	1949
Friendsville S	New Harmony C	1949
Gallagher	Calhoun C	1946
Gards Point N.	Gards Point C	1957
Geff	Clay City C	1947
Geff W	Clay City C	1948
Goldengate W	Goldengate N C	1953
Gossett	Roland C	1954
Grayville	Phillipstown C	1948
Grayville W	Albion C	1949
Griffin	New Harmony C	1941
Helena	Ruark W C	1952
Herald E; Concord S C	Herald C	1953
Herald N	Storms C	1953
Hoodville	Dale C	1943
Hoosier; Bible Grove C	Sailor Springs C	1948
Hoosier N; Bible Grove C	Sailor Springs C	1948
Ingraham W; Bible Grove C	Sailor Springs C	1948
Inman	Inman W C	1950
Inman Central.	Inman W C	1949
Inman N	Inman W C	1949
Inman S	Inman W C	1950
Iron C	Roland C	1954
Keensburg C	New Harmony C	1948
Kincaid S	Kincaid C	1958
Lancaster N	Ruark W C	1952
Lancaster W	Berryville C	1949
Leech C	Goldengate C	1948
Maple Grove E	Parkersburg C	1952
Mason	Iola C	1956
Mason S	Iola C	1948
Maud Central; Maud N C	New Harmony C	1949
Maud C	New Harmony C	1951
Maud N C	New Harmony C	1951
Maud W; Maud N C.	New Harmony C	1948
Maunie	Maunie S C	1948
Maunie W	Maunie N C	1955
Merriam	Clay City C	1953
Mitchell; Ellery C.	Goldengate C	1952
Mt. Auburn Central	Mt. Auburn C	1954
Mt. Auburn E	Mt. Auburn C	1954
Mt. Carmel W.	New Harmony C	1948
Mt. Erie	Clay City C	1944
Mt. Erie S	Clay City C	1948
New Haven N	Concord E C	1950

TABLE 10.—(Continued)

Original pool name; first consolidation	Present pool assignment	Date of first consol.
New Haven W.	Inman E C	1949
New Hebron	Main C	1955
Noble	Clay City C	1948
Noble N	Clay City C	1948
Noble S.	Clay City C	1948
Norris City.	Roland C	1955
North City; Christopher C	Sesser C	1954
Olney E	Olney C	1949
Parker	Main C	1954
Parkersburg N.	Parkersburg C	1951
Patton	Allendale C	1948
Patton W	Allendale C	1948
Roundprairie	Johnsonville C	1941
Rural Hill	Dale C	1951
Rural Hill W	Dale C	1955
Sailor Springs S	Sailor Springs C	1942
Sailor Springs W	Sailor Springs C	1949
Shelbyville E	Shelbyville C	1956
Sims.	Johnsonville C	1948
Sims N	Johnsonville C	1945
Sorento S	Sorento C	1956
Springerton	Bungay C	1946
Stanford	Clay City C and Sailor Springs C	1953
Stanford W	Sailor Springs C	1953
Stokes-Brownsville; Iron C	Roland C	1953
Swearingen Gas	Main C	1955
Toliver	Hord S C	1955
West End	Dale C	1955
West Frankfort S	West Frankfort C	1948
West Liberty; Dundas C.	Clay City C	1941
Williams S	Williams C	1953
Willow Hill C	Clay City C	1948
Willow Hill N; Willow Hill C	Clay City C	1947
Woburn S	Woburn C	1950

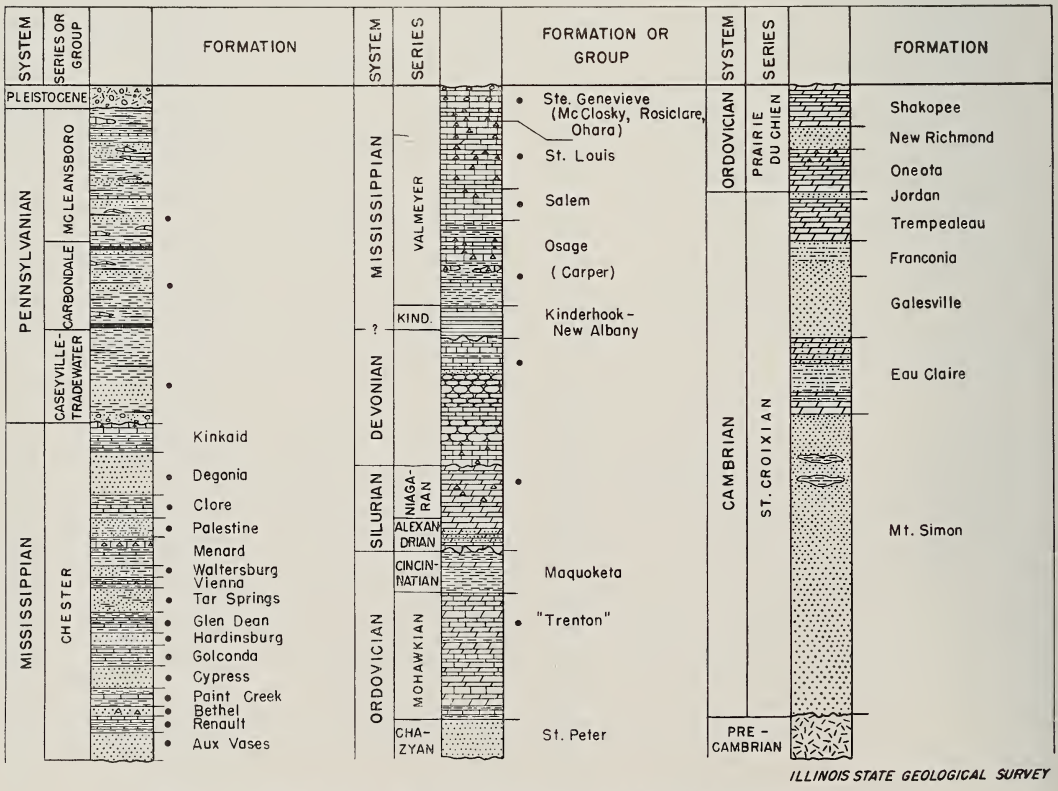

Fig. 3. — Generalized geologic column for the southern Illinois oil region. Black dots identify oil-producing strata.

Gas Produced in Illinois and Marketed in 1958

Field; County	*Market*	*Amount used (cu. ft.)*
Cooks Mills Consolidated; Coles	Pipeline	212,815,000
Herald Consolidated; White-Gallatin	Carmi	38,007,000
Eldorado; Saline	Eldorado	7,202,000
Eldorado and Eldorado East; Saline	Pipeline	362,838,000
Harco, Harco East, and Raleigh South; Saline	Pipeline	603,116,000
		1,223,978,000

UNDERGROUND GAS STORAGE

The underground gas-storage project at Cooks Mills Consolidated pool in Coles County was put into operation in 1958. At Troy Grove in LaSalle County another gas-storage project, the fifth to be undertaken in Illinois, was under development in 1958. In addition, there are successful operations at Herscher in Kankakee County and Waterloo in Monroe County. Continued development at Waverly thus far has not achieved satisfactory results.

The search for underground gas-storage sites in Illinois has been accelerated, and it is likely that more gas-storage projects will be undertaken in the near future.

SECONDARY RECOVERY

The oil recovered by waterflooding in Illinois in 1958 is estimated to be 42,923,000 barrels or 53 percent of the total production. Annual and cumulative secondary recovery figures on oil production by pools are given in table 11. Pay zones that are waterflooded are indicated by the letter W. Pressure maintenance in pay zones is indicated by the letter P.

Individual waterflood projects are listed in table 16 and pressure maintenance projects in table 17.

TABLE 11.—OIL PRODUC

EXPLANATION OF ABBREVIATIONS

Pool: N, North; S, South; E, East; W, West; C, Consolidated.
Age: Precam, Precambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen, Pennsylvanian.
Character of formation: L, limestone; LS, sandy limestone; OL, oolitic limestone; D, dolomite; DS, sandy dolomite; S, sandstone.

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
1	Ab Lake; Gallatin; 8S; 10E			1947	110		5
2		Pennsylvanian, Pen	805		30		x
3		Palestine, Mis	1,835		10		x
4		Waltersburg, Mis	2,000		40		0
5		Renault, Mis	2,735		40		0
6		Aux Vases, Mis*	2,770		40		0
7	Ab Lake W; Gallatin; 8-9S; 9-10E			1950	280		46
8		Pennsylvanian, Pen	725		10		0
9		Waltersburg, Mis	2,020		90		x
10		Tar Springs, Mis	2,075	1958	20		x
11		Cypress, Mis*	2,425		10		x
12		Aux Vases, Mis	2,735		160		x
13		McClosky, Mis	2,830		20		0
14		2 or more pays					
15	Aden C; Hamilton,			1938	2,460	73,700	305
16	Wayne; 2-3S; 7E	Aux Vases, Mis	3,200		1,340	W	x
17		Ohara, Mis*	3,290		140		x
18		Rosiclare, Mis	3,320		100		x
19		McClosky, Mis	3,350		2,340	W	x
20		Salem, Mis*	3,735		80		x
21		2 or more pays					
22	Aden S; Hamilton; 3S; 7E			1945	400		30
23		Aux Vases, Mis	3,245		100		x
24		Ohara, Mis*	3,310		20		x
25		Rosiclare, Mis	3,330		160		x
26		McClosky, Mis	3,395		340		x
27		2 or more pays					
28	Akin; Franklin; 6S; 4E			1942	570		191
29		Cypress, Mis	2,840		180		x
30		Aux Vases, Mis	3,100		370		x
31		Ohara, Mis	3,100		80		x
32		McClosky, Mis*	3,270		20		x
33		2 or more pays					
34	Akin W; Franklin;			1948	100		5
35	6S; 4E	Cypress, Mis	2,715		20		x
36		Ohara, Mis*	3,050		20		0
37		Rosiclare, Mis*	3,080		20		x
38		McClosky, Mis	3,130		60		x
39		2 or more pays					
40	Albion Central; Edwards; 2S; 10E			1955	180		12
41		Ohara, Mis	3,350		180		x
42		McClosky, Mis*	3,395		20		x
43		2 or more pays					
44	Albion C†; Edwards,			1940	5,700	777	1,362
45	White; 1-3S; 10-11E, 14W	Mansfield, Pen	1,650		60		x
46		Bridgeport, Pen	1,900		300	W	x
47		Biehl, Pen	2,000		1,500	W, P	x
48		Degonia, Mis	2,125		20		x
49		Waltersburg, Mis	2,365		630	W	x
50		Tar Springs, Mis	2,460		90	W	x
51		Hardinsburg, Mis	2,635		60		x
52		Cypress, Mis	2,860		380	W	x
53		Paint Creek, Mis	2,911	1958	40		x
54		Bethel, Mis	2,960		430		x
55		Renault, Mis	3,000		100		x
56		Aux Vases, Mis	3,045		1,060	W	x
57		Ohara, Mis	3,110		200		x
58		Rosiclare, Mis	3,130		60		x
59		McClosky, Mis	3,200		1,680	W	x
60		2 or more pays					

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

TION IN ILLINOIS, 1958

EXPLANATION OF ABBREVIATIONS

Structure: A, anticlinal; C, accumulation due to change in character of rock; D, dome; F faulting an important factor in oil accumulation; f, faulting a minor factor in oil accumulation; H, strata horizontal or nearly horizontal; L, lens; M, monocline; N, nose; R, reef; T, terrace; U, unconformity; X, structure not determined.

Combinations of the above letters are used where more than one factor applies.

Secondary recovery: W, water flooding; P, pressure maintenance.

x—Correct figure not determinable.

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	38	8	1	0	5					M	Mis	2,953
	x	3	1	0		x	x	S	10	M		
	x	1	0	0		x	x	S	5	MF		
	0	2	0	0		x	x	S	10	M		
	x	2	0	0		35	x	L	8	MF		
	x	0	0	0		35	x	S	9	MF		
	143	22	6	0	18					M	Mis	2,964
	0	1	0	0		x	x	S	10	ML		
	x	6	2	0		x	x	S	20	ML		
	x	2	2	0		x	x	S	10	ML		
	x	0	0	0		x	x	S	9	ML		
	x	9	2	0		x	x	S	6	ML		
	2 5	1	0	0		x	x	L	2	MC		
		3	0	0								
1,282	8,483	108	1	0	88					A	Dev	5,395
	x	20	1	0		35	x	S	10	A		
	x	0	0	0		35	x	L	7	A		
	x	2	0	0		35	x	LS	5	AC		
	x	74	0	0		35	x	L	4	A		
	x	0	0	0		40	x	L	16	AC		
		12	0	0								
	571	21	0	1	17					A	Mis	3,466
	x	2	0	0		x	x	S	8	AL		
	x	0	0	0		x	x	L	7	AC		
	x	1	0	0		x	x	LS	8	AC		
	x	9	0	0		39	x	L	9	AC		
		9	0	1								
	1,329	46	9	1		42				A	Mis	3,515
	x	11	0	0		33	0.14	S	10	AL		
	x	30	7	0		38	0.12	S	22	AL		
	x	4	2	1		x	x	L	18	AC		
	x	0	0	0		x	x	L	9	AC		
		1	0	0								
	85	6	0	0	4					A	Mis	3,435
	x	2	0	0		x	x	S	8	AL		
	x	0	0	0		x	x	L	10	AC		
	x	0	0	0		x	x	L	12	AC		
	x	3	0	0		x	x	L	4	AC		
		1	0	0								
	110	7	0	0	4					X	Mis	3,510
	x	6	0	0		x	x	L	5	X		
	x	0	0	0		x	x	L	4	X		
		1	0	0								
3,615	18,950	449	14	7	376					AM	Dev	5,185
	x	4	0	0		35	x	S	5	MF		
	x	19	0	0		35	0.16	S	15	MF		
	x	100	0	2		34	0.16	S	15	MF		
	x	1	0	0		35	x	S	9	MF		
	x	37	0	0		35	x	S	16	AL		
	x	4	0	0		37	x	S	5	AL		
	x	3	0	0		36	x	S	10	A		
	x	32	0	0		37	x	S	15	A		
	x	4	4	0		x	x	S	12	A		
	x	28	1	1		35	x	S	14	Af		
	x	1	0	0		35	x	L	13	Af		
	x	82	6	2		35	x	S	18	Af		
	x	9	0	0		40	x	L	5	AC		
	x	3	1	0		35	x	L	10	AC		
	x	87	4	1		39	x	L	12	AC		
		41	2	1								

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
61	Albion E; Edwards;			1943	790		45
62	2S; 14W	Cypress, Mis	2,800		120		x
63		Paint Creek, Mis*	2,910		10		x
64		Bethel, Mis	2,920		20		x
65		Renault, Mis	2,925		60		x
66		Aux Vases, Mis	3,020		150		x
67		Ohara, Mis	3,100		200		x
68		Rosiclare, Mis	3,125		100		x
69		McClosky, Mis	3,155		240		x
70		2 or more pays					
71	Albion W; Edwards; 3S; 10E	McClosky, Mis	3,375	1953	20		abd 1953
72	Allendale; Lawrence,			1912	8,180	389	517
73	Wabash; 1–2N; 11–13W	Pleasantview, Pen	660		x		x
74		Bridgeport, Pen	1,070		x		x
75		Buchanan, Pen	1,290		x		x
76		Biehl, Pen	1,450		x	W	x
77		Jordan, Pen	1,490		x	W	x
78		Waltersburg, Mis	1,540		x		x
79		Tar Springs, Mis	1,600		x		x
80		Hardinsburg, Mis	1,780		x		x
81		Cypress, Mis	1,920		x	W	x
82		Bethel, Mis	2,010		x		x
83		Aux Vases, Mis	2,280		x		x
84		Ohara, Mis	2,300		x		x
85		Rosiclare, Mis	2,300		x		x
86		McClosky, Mis	2,300		x		x
87		2 or more pays					
88	Alma; Marion; 4N; 2E			1941	70		1
89		Cypress, Mis*	1,805		10		0
90		Bethel, Mis	1,945		60		x
91		Rosiclare, Mis	2,085		40		x
92	Amity; Richland; 4N; 14W	McClosky, Mis	2,960	1942	160		2
93	Amity S; Richland; 4N; 14W	Rosiclare, Mis	2,890	1953	20		abd 1953
94	Amity W; Richland; 4N; 14W	Aux Vases, Mis	2,925	1953	10		abd 1954
95	Ashley, Washington; 2S; 1W	Bethel, Mis	1,430	1953	180		37
96	Ashmore E; Coles; 13N; 14W	Pennsylvanian, Pen	415	1956	10		abd 1957
97	Ashmore S†; Clark, Coles; 12N; 10E, 11E, 14W	Unnamed, Pen	420	1958	100		7
98	Assumption C			1948	2,900	211	308
99	Christian; 13–14N; 1E	Bethel, Mis	1,050		430	W	x
100		Rosiclare, Mis	1,170		320	W	x
101		Cedar Valley, Dev	2,300		2,780	W	x
102	Assumption S; Christian; 12N; 1E	Cedar Valley, Dev	2,630	1951	60		1
103	Ava-Campbell Hill;† Jackson; 7S; 3-4W	Cypress; Mis	780	1916	80	abd 1943; rev 1956;	
104	Baldwin; Randolph; 4S; 6W	Silurian, Sil	1,535	1954	60		.5
105	Barnhill; Wayne; 2–3S; 8E			1939	1,850	71	195
106		Aux Vases, Mis	3,325		670	W	x
107		Ohara, Mis	3,370		160	W	x
108		Rosiclare, Mis	3,400		180	W	x
109		McClosky, Mis	3,450		1,160	W	x
110		St. Louis, Mis	3,520		20		x
111		Salem, Mis	3,795		40		x
112		2 or more pays					
113	Bartelso; Clinton; 1–2N; 3W			1936	600	87	325
114		Carlyle (Cypress), Mis	985		350	W	x
115		Silurian, Sil	2,420		250		x
116	Bartelso E; Clinton; 1N; 3W	Silurian, Sil	2,550	1950	320		51
117	Bartelso S; Clinton; 1N; 3W	Devonian, Dev	2,475	1942	100		.5
118	Bartelso W; Clinton; 1N; 3–4W	Cypress, Mis	960	1945	170		6
119	Beaucoup; Washington; 2S; 2W			1951	280		12
120		Clear Creek, Dev	3,050		280		x
121		Trenton, Ord*	4,095		20		x
122		2 or more pays					
123	Beaucoup S; Washington; 2S; 2W	Bethel, Mis	1,430	1951	230		47
124	Beaver Creek; Bond, Clinton; 3-4N; 2–3W	Bethel, Mis	1,130	1942	160	P	7
125	Beaver Creek N; Bond; 4N; 3W	Bethel, Mis	1,115	1949	50	abd 1954;	0
126	Beaver Creek S†; Bond,			1946	450		28
127	Clinton, 3-4N; 2–3W	Cypress, Mis	1,005		10		0
128		Bethel, Mis	1,140		430	P	28
129	Beckemeyer Gas;† Clinton; 2N; 3W	Cypress, Mis	1,070	1956	10		x
130	Bellair; Crawford, Jasper; 8N; 14W			1907	1,610	115	x
						see Clark Co. Div	

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958			1958									
Secondary recovery	Total	Completed to end of 1958	Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	1,096	48	2	1	29					A	Mis	3,254
	x	7	0	1		x	x	S	7	A		
	x	0	0	0		x	x	S	6	AL		
	x	1	0	0		x	x	S	6	AL		
	x	4	0	0		x	x	LS	10	AC		
	x	9	1	0		39	0.14	S	17	AL		
	x	9	0	0		x	x	L	7	A		
	x	4	1	0		x	x	L	7	A		
	x	9	0	0		x	x	L	7	A		
		5	0	0								
	1	1	0	0	0	x	x	L	5	X	Mis	3,420
1,508	16,826	931	8	20	408					AM	Mis	2,571
	x	3	0	x		x	x	S	30	AM		
	x	x	0	x		x	x	S	12	AM		
	x	x	0	x		x	x	S	15	AM		
	x	624	7	x		35	x	S	20	AM		
	x	5	0	x		x	x	S	10	AM		
	x	24	0	x		x	x	S	15	AM		
	x	12	0	x		x	x	S	20	AM		
	x	1	0	x		x	x	S	10	AM		
	x	51	1	x		36	x	S	10	AM		
	x	82	0	x		37	x	S	10	AM		
	x	3	0	x		x	x	S	12	AM		
	x	10	0	x		x	x	L	10	AM		
	x	3	0	x		x	x	LS	5	AM		
	x	14+	0	x		37	x	L	8	AM		
		13	0	x								
	81	6	0	0	2					A	Dev	3,692
	x	0	0	0		x	x	S	7	AL		
	x	4	0	0		x	x	S	8	AL		
	x	2	0	0		36	0.26	L	10	AC		
	29	4	0	0	1	x	x	OL	5	MC	Mis	3,089
	.1	1	0	0	0	x	x	L	4	X	Mis	3,010
	0	1	0	0	0	x	x	S	12	X	Mis	3,100
	142	15	2	0	15	x	x	S	7	X	Dev	3,116
	0	1	0	0	0	x	x	S	14	X	Pen	445
	7	10	10	0	10	x	x	S	x	AL	Mis	511
1,374	6,100	172	0	0	151					A	Ord	3,070
	x	43	0	0		40	x	S	13	A		
	x	16	0	0		38	x	S	4	AL		
	x	113	0	0		40	x	L	8	A		
	11	3	0	0	1	x	x	L	15	X	Dev	2,740
abd 1957	x	16	0	0	0	x	x	S	18	A	Tren	3,582
	6	3	0	0	3	x	x	L	x	R	Tren	2,234
1,068	4,492	142	4	2	86					A	Mis	3,878
	x	53	3	0		x	x	S	15	AL		
	x	3	1	0		x	x	OL	6	AC		
	x	3	0	0		x	x	LS	9	AC		
	x	69	0	1		38	0.17	OL	15	AC		
	x	1	0	1		x	x	L	7	AC		
	x	1	0	0		39	x	L	8	AC		
		12	0	0								
927	3,622**	78	0	0	31					D	St. P	4,212
	x	51	0	0		36	0.20	S	15	D		
	x	27	0	0		42	0.27	L	12	R		
	559	16	0	1	15	42	x	L	7	R	Sil	2,788
	24	3	0	0	1	40	0.15	L	3	A	Dev	2,652
	27	14	1	0	6	x	x	S	15	A	Dev	2,520
	324	14	0	0	14					A	Tren	4,192
	x	13	0	0		x	x	L	12	A		
	x	0	0	0		x	x	L	5	A		
		1	0	0								
	491	22	0	0	20	x	x	S	9	AL	Dev	3,122
	196	16	0	0	13	34	0.25	S	6	A	Dev	2,558
rev 1958	1	5	1	0	1	x	x	S	4	A	Dev	2,556
	373	44	1	2	27					A	Sil	2,543
	0	1	0	0		x	x	S	20	A		
	373	43	1	2		x	x	S	5	A		
	x	1	0	1	0	x	x	S	23	X	Sil	2,730
1,869 for Production	x	508	1	9	89					AM	Mis	1,471

**Includes 154,000 bbls. omitted in 1957.

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
131		"500 ft.", Pen	560		x	W	x
132		"800 ft.", Pen	815		x		x
133		"900 ft.", Mis	885		x		x
134		Cypress, Mis	1,210		10		x
135		Renault, Mis	830		20		x
136		Aux Vases, Mis	800		50		x
137		Ohara, Mis	860		20		x
138	Belle Prairie; Hamilton; 4S; 6–7E			1940	260		27
139		Aux Vases, Mis	3,250		30		x
140		McClosky, Mis	3,420		240		x
141		2 or more pays					
142	Belle Rive; Jefferson; 3S; 4E	McClosky, Mis	3,085	1943	200		10
143	Bellmont; Wabash; 1S; 13-14W			1951	70		2
144		Bethel, Mis	2,650		10		0
145		Ohara, Mis	2,840		60		2
146	Beman; Lawrence; 3N; 11W			1942	500		4
147		Aux Vases, Mis	1,805		40		x
148		St. Genevieve, Mis	1,850		480		x
149		2 or more pays					
150	Beman E; Lawrence; 3N; 10W			1947	100		1
151		Aux Vases, Mis	1,805		20		x
152		Ste. Genevieve, Mis	1,860		90		x
153		2 or more pays					
154	Bennington S; Edwards; 1N; 10E	McClosky, Mis	3,240	1944	20		abd 1946
155	Benton; Franklin; 6S; 2–3E			1941	2,400	590	604
156		Pennsylvanian, Pen	1,700		20		0
157		Tar Springs, Mis	2,100		2,400	W	604
158	Benton N; Franklin; 5-6S; 2E			1941	750		78
159		Cypress, Mis	2,460		130		x
160		Paint Creek, Mis	2,595		150		x
161		Bethel, Mis	2,630		30		x
162		Aux Vases, Mis	2,685		100		x
163		Ohara, Mis	2,730		220		x
164		Rosiclare, Mis	2,775		160		x
165		McClosky	2,800		360		x
166		2 or more pays					
167	Berryville C; Edwards, Wabash;			1943	540		11
168	1–2N; 14W	Ohara, Mis	2,900		120		x
169		Rosiclare, Mis	2,850		20		x
170		McClosky, Mis	2,890		420		x
171		2 or more pays					
172	Bessie; Franklin; 6S; 3E	Ohara, Mis	2,895	1943	40		4
173	Bible Grove N; Effingham; 6N; 7E			1947	130		1
174		Cypress, Mis	2,535		50		1
175		Rosiclare, Mis	2,835		40		0
176		McClosky, Mis	2,875		60		.5
177		2 or more pays					
178	Bible Grove S; Clay; 5N; 7E			1942	50		3
179		Cypress, Mis	2,500		10		.5
180		Aux Vases, Mis	2,740		40		2.5
181	Blackland; Christian, Macon; 15N; 1E–1W	Silurian, Sil	1,935	1953	650		54
182	Black River; White; 4S; 13W	Clore, Mis	1,865	1952	10		1
183	Blairsville W; Hamilton; 4S; 7E			1951	200		20
184		Rosiclare, Mis*	3,345		20		x
185		McClosky, Mis	3,405		200		x
186		2 or more pays					
187	Bogota; Jasper; 6N; 9E			1943	300		4
188		Rosiclare, Mis	3,090		20		0
189		McClosky, Mis	3,110		280		4
190	Bogota N; Jasper; 6N; 9E	McClosky, Mis	3,080	1949	10		abd 1950
191	Bogota S; Jasper; 5-6N, 9E	McClosky, Mis	3,075	1944	480		14
192	Bone Gap C; Edwards; 1S; 10–11E, 14W			1941	1,210		61
193		Pennsylvanian, Pen	2,110		10		0
194		Waltersburg, Mis	2,310		150	P	x
195		Cypress, Mis	2,710		70		2
196		Bethel, Mis	2,880		30		x
197		Aux Vases, Mis	3,020		10		0
198		Ohara, Mis	3,040		80		x
199		Rosiclare, Mis	3,045		80		x
200		McClosky, Mis	3,200		800		x

*Multiple pay or workover wells only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958			Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
Secondary recovery	Total		Completed	Abandoned	Producing end of year							
	x	311	0	x		32	x	S	30	AM		
	x	75	0	x		x	x	S	x	AM		
	x	184	0	x		37	x	S	x	AM		
	x	1	0	x		x	x	S	4	AM		
	x	2	0	x		x	x	S	6	AM		
	x	4	1	x		x	x	S	x	AM		
	x	1	0	x		x	x	L	4	A		
	663	14	1	0	11					A	Dev	5,483
	x	2	1	0		37	x	S	8	AC		
	x	11	0	0		37	0.12	L	6	AC		
		1	0	0								
	336	5	0	0	3	39	0.50	L	6	AC	Mis	4,200
	69	4	0	0	1					M	Mis	3,006
	11	1	0	0		x	x	S	7	ML		
	59	3	0	0		x	x	L	7	MC		
	251	23	0	0	13					A	Mis	2,000
	x	2	0	0		x	x	S	20	AL		
	x	19	0	0		38	x	L	7	AC		
		2	0	0								
	107	5	0	1	1					A	Mis	1,907
	x	1	0	1		x	x	S	20	AL		
	x	3	0	0		x	x	L	7	AC		
		1	0	0								
	10	1	0	0	0	x	x	L	8	MC	Mis	3,420
13,667	34,085	243	0	0	132					A	Mis	3,205
	x	0	0	0		x	x	S	9	AL		
	34,085	243	0	0		38	x	S	10	A		
	1,969	60	0	0	51					A	Mis	2,906
	x	13	0	0		x	x	S	17	A		
	x	8	0	0		x	x	S	9	A		
	x	3	0	0		38	0.15	S	20	AL		
	x	3	0	0		37	0.15	S	10	A		
	x	6	0	0		37	0.70	L	8	A		
	x	4	0	0		38	0.15	S	6	A		
	x	9	0	0		x	x	L	10	A		
		14	0	0								
	938	19	0	1	4					M	Mis	3,125
	x	5	0	1		x	x	L	6	MC		
	x	1	0	0		x	x	L	12	MC		
	x	12	0	0		36	x	L	10	MC		
		1	0	0								
	85	1	0	0	1	39	0.15	L	10	MC	Mis	3,457
	80	7	0	1	1					M	Mis	2,999
	x	3	0	0		36	x	S	7	M		
	x	1	0	0		x	x	LS	5	ML		
	x	2	0	1		x	x	L	5	M		
		1	0	0								
	109	3	0	0	2					M	Mis	2,953
	6	1	0	0		x	x	S	10	ML		
	102.5	2	0	0		38	x	S	10	ML		
	358	25	2	2	17	x	x	L	12	MU	Ord	3,780
	14	1	0	0	1	x	x	S	6	X	Mis	3,071
	349	10	0	1	3					A	Mis	3,507
	x	0	0	0		x	x	L	6	AC		
	x	9	0	1		x	x	L	8	AC		
		1	0	0								
	474	10	1	0	5					A	Mis	3,234
	5	1	0	0		x	x	L	4	AC		
	469	9	1	0		35	x	L	7	A		
	0	1	0	0	0	x	x	L	3	X	Mis	3,150
	446	23	0	0	17	35	x	L	8	MC	Mis	3,182
	1,968	58	0	1	27					A	Mis	3,350
	2	1	0	0		x	x	S	8	AL		
	x	15	0	0		35	x	S	20	A		
	248	7	0	0		x	x	S	10	A		
	x	3	0	1		x	x	S	14	AL		
	10	1	0	0		x	x	S	9	AL		
	x	2	0	0		x	x	L	5	AC		
	x	3	0	0		x	x	L	5	AC		
	x	24	0	0		41	0.33	L	6	AC		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
201		2 or more pays					
202	Bone Gap E; Edwards; 1S; 14W			1951	40		abd 1956
203		Ohara, Mis	2,980		20		0
204		McClosky, Mis	3,050		20		0
205	Bone Gap W; Edwards; 1S; 10E	Ohara, Mis	3,290	1954	20		abd 1955
206	Boulder†; Clinton; 2–3N; 2W			1941	720		267
207		Bethel, Mis	1,190		530		x
208		Geneva, Dev	2,630		540		x
209	Boulder E†; Clinton; 3N; 1W	Devonian, Dev	2,850	1955	60		7
210	Bourbon C; Douglas; 15N; 7E	Rosiclare, Mis	1,600	1956	900	W	123
211	Bowyer; Richland; 5N; 14W	Rosiclare, Mis	2,883	1958	20		3
212	Boyd; Jefferson; 1S; 1–2E			1944	1,430	236	663
213		Bethel, Mis	2,060		1,430	W, P	x
214		Aux Vases, Mis	2,130		680	W	x
215		Ohara, Mis*	2,230		40		x
216		2 or more pays					
217	Broughton; Hamilton; 6S; 7E	McClosky, Mis	3,275	1951	20		abd 1954
218	Broughton S; Saline; 7S; 7E	McClosky, Mis	3,215	1951	20		abd 1952
219	Brown; Marion; 1N; 1E	Cypress, Mis	1,670	1910	120		x
220	Browns; Edwards, Wabash; 1–2S; 14W			1943	910		36
221		Tar Springs, Mis*	2,365		10		x
222		Cypress, Mis	2,640		280		x
223		Bethel, Mis	2,785		50		x
224		Aux Vases, Mis	2,965		10		x
225		Ohara, Mis	2,965		40		x
226		Rosiclare, Mis	2,975		20		x
227		McClosky, Mis	3,000		600		x
228		2 or more pays					
229	Browns E; Wabash; 1–2S; 14W	Cypress, Mis	2,570	1946	600	71	99
230	Browns S; Edwards; 2S; 14W			1943	40		1
231		Bethel, Mis	2,850		20		x
232		Aux Vases, Mis	2,950		30		x
233		2 or more pays					
234	Bungay C; Hamilton; 4S; 7E —			1941	3,390	37	356
235		Renault, Mis	3,270		180		x
236		Aux Vases, Mis	3,295		3,060	W	x
237		Ohara, Mis	3,335		80		x
238		Rosiclare, Mis	3,400		80		x
239		McClosky, Mis	3,425		260		x
240		2 or more pays					
241	Burnt Prairie S; White; 4S; 9E			1947	70		2
242		Aux Vases, Mis	3,330		10		1
243		Ohara, Mis	3,415		20		0
244		McClosky, Mis	3,460		40		1
245	Calhoun Central; Richland; 2N; 10E			1950	40		abd 1952
246		Rosiclare, Mis	3,245		20		0
247		McClosky, Mis	3,280		20		0
248	Calhoun C; Richland, Wayne; 2–3N; 9–10E			1944	2,420	25	98
249		Ohara, Mis	3,140		x		x
250		Rosiclare, Mis	3,160		x		x
251		McClosky, Mis	3,180		x	W	x
252		2 or more pays					
253	Calhoun E; Richland; 2N; 10–11E	McClosky, Mis	3,265	1950	160		3
254	Calhoun N; Richland; 3N; 10E			1944	40		2
255		Rosiclare, Mis*	3,155		20		x
256		McClosky, Mis	3,170		40		x
257		2 or more pays					
258	Calhoun S; Wayne; 2N; 9E	Aux Vases, Mis	3,175	1953	10		abd 1953
259	Carlinville†; Macoupin; 9N; 7W	Unnamed, Pen	380	1909	80		x
							abd 1925; rev 1942
260	Carlinville N†; Macoupin; 10N; 7W	Pottsville, Pen	440	1941	120		abd 1954
261	Carlinville S; Macoupin; 9N; 7W	Pennsylvanian, Pen	539	1958	10		0
262	Carlyle;† Clinton; 2N; 3W			1911	940		16
263		Golconda, Mis	900		30		x
264		Carlyle (Cypress), Mis	1,035		940		x
265		2 or more pays					
266	Carlyle N; Clinton; 3N; 3W	Bethel, Mis	1,150	1950	470	P	36
267	Carlyle S; Clinton; 1N; 3W	Cypress, Mis	1,075	1951	20		abd 1953
268	Carmi; White; 5S; 9E			1939	160		23
							abd 1949; rev 1952
269		Pennsylvanian, Pen	1,210		10		0
270		Cypress, Mis	2,800		50		10

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
		2	0	0								
	13	2	0	0	0					M	Mis	3,156
	13	1	0	0		x	x	L	10	MC		
	0	1	0	0		x	x	L	5	MC		
	2	1	0	0	0	x	x	L	5	X	Mis	3,388
	6,583	47	0	0	31					D	Tren	3,813
	x	27	0	0		36	x	S	20	D		
	x	20	0	0		28	0.33	D	7	R		
	25	3	1	0	2	x	x	L	5	X	Dev	2,946
	901	76	9	3	72	x	x	LS	12	X	Mis	1,715
	3	1	1	0	1	x	x	S	x	X	Mis	2,950
1,084	12,948	116	0	0	111					A	Dev	3,870
	x	74	0	0		39	0.14	S	19	A		
	x	6	0	0		39	x	S	15	A		
	x	0	0	0		39	x	L	2	AC		
		36	0	0								
	6	1	0	0	0	x	x	L	5	X	Mis	3,355
	0	1	0	0	0	x	x	L	4	X	Mis	3,300
	x	12	0	0	11	x	x	S	x	N	Mis	2,036
	1,672	51	0	0	33					A	Mis	3,147
	x	0	0	0		x	x	S	14	AL		
	x	11	0	0		35	0.18	S	13	A		
	x	1	0	0		35	x	S	12	AL		
	x	1	0	0		x	x	S	7	AL		
	x	2	0	0		x	x	L	4	AC		
	x	0	0	0		x	x	L	3	AC		
	x	27	0	0		35	x	L	6	A		
		9	0	0								
712	2,474	59	2	14	32	36	x	S	13	ML	Mis	3,113
	19	4	1	1	1					N	Mis	3,095
	x	1	0	0		x	x	S	15	NL		
	x	2	1	1		x	x	S	8	NL		
		1	0	0								
627	10,327	231	3	0	189					A	Mis	3,565
	x	15	0	0		x	x	S	10	AL		
	x	185	4	0		37	0.24	S	15	AL		
	x	2	0	0		x	x	L	8	AC		
	x	2	0	0		x	x	L	8	AC		
	x	10	0	0		37	0.24	L	8	AC		
		6	0	0								
	24	4	0	0	2					X	Mis	3,565
	7	1	0	0		x	x	S	24	X		
	10	1	0	0		x	x	L	6	X		
	7	2	0	0		x	x	L	4	X		
	.5	2	0	0	0					M	Mis	3,335
	x	1	0	0		x	x	L	6	MC		
	x	1	0	0		x	x	L	3	MC		
358	3,515	101	1	5	59					A	Mis	3,990
	x	19	0	2		x	x	OL	9	A		
	x	11	0	2		x	x	OL	6	A		
	x	57	1	1		38	0.15	OL	10	A		
		14	0	0								
	212	5	0	0	5	39	x	L	5	MC	Mis	3,380
	62	2	0	0	1					A	Mis	3,280
	x	0	0	0		x	x	LS	10	A		
	x	1	0	0		x	x	OL	11	A		
		1	0	0								
	1	1	0	0	0	x	x	S	5	X	Mis	3,350
	x	8	0	0	3	28	x	S	x	A	Mis	1,380
	1	6	0	0	0	20	0.35	S	10	X	Tren	1,970
	0	1	1	0	1	x	x	S	x	X	Pen	625
	3,892	186	0	5	28					A	St. P	4,120
	x	5	0	2		x	x	L	10	AC		
	x	180	0	3		35	0.26	S	20	AL		
		1	0	0								
	511	41	0	0	34	36	x	S	6	AL	Dev	2,558
	2	2	0	0	0	x	x	S	4	X	Mis	1,194
	78	13	3	0	5					M	Mis	3,340
	1	1	0	0		x	x	S	10	ML		
	59	6	1	0		x	x	S	15	ML		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
271		Aux Vases, Mis	3,145		20		x
272		McClosky, Mis	3,150		80		0
273	Carmi N; White; 5S; 9E			1942	110		7
274		Cypress, Mis	2,940		20		x
275		Paint Creek, Mis*	3,080		10		x
276		Aux Vases, Mis	3,270		100		x
277		2 or more pays					
278	Casey; Clark; 10–11N; 14W			1906	2,250	28	x
279		Upper Gas, Pen	265		200	see Clark Co. Div. for	x
280		Lower Gas, Pen	300		400		x
281		Casey, Pen	445		1,560	W	x
282		Carper, Mis	1,300		140		x
283	Centerville; White; 4S; 9E			1940	200		10
284		Aux Vases, Mis*	3,240		10		0
285		Ohara, Mis	3,310		100		x
286		Rosiclare, Mis*			20		x
287		McClosky, Mis	3,370		120		x
288		2 or more pays					
289	Centerville E; White; 3–4S; 9–10E			1941	1,350	56	168
290		Palestine, Mis	2,225		20		x
291		Tar Springs, Mis	2,500		400	W	x
292		Hardinsburg, Mis	2,615		10		x
293		Cypress, Mis	2,915		390	W	x
294		Paint Creek, Mis*	2,980		20		x
295		Bethel, Mis	2,990		180		x
296		Aux Vases, Mis	3,075		340		x
297		Ohara, Mis	3,175		40		x
298		Rosiclare, Mis*	3,185		20		x
299		McClosky, Mis	3,230		240		x
300		2 or more pays					
301	Centerville N; White; 3S; 10E	Bethel, Mis	2,990	1947	10		abd 1948
302	Centerville NE; White; 3S; 10E	Bethel, Mis	3,055	1955	10		1
303	Centralia; Clinton, Marion; 1–2N; 1E, 1W			1937	3,370	2,669	3,463
304		Petro, Pen	765	1958	10		x
305		Cypress, Mis	1,200		500	W	x
306		Bethel, Mis	1,355		1,400	W	x
307		Devonian, Dev	2,870		2,500		x
308		Trenton, Ord	3,930		1,400		x
309		2 or more pays					
310	Centralia W; Clinton; 1N; 1W	Bethel, Mis	1,440	1940	90		2
311	Chesterville; Douglas; 15N; 7E	Rosiclare, Mis	1,780	1956	100		3
312	Chesterville E; Douglas; 14–15N; 7–8E	Rosiclare, Mis	1,720	1957	400		164
313	Clark County Division; Clark, Coles, Cumberland, Edgar, Jasper				24,680	1,263	1,587
					Total of lines 130, 278, 738, 744, 956,		
314	Clarksburg; Shelby; 10N; 4E	Bethel, Mis	1,770	1946	30		4
315	Clay City C; Clay, Jasper, Richland,			1937	85,150	2,207	7,873
316	Wayne; 1–7N, 1–2S; 6–10E	Waltersburg, Mis	2,175		10		x
317		Tar Springs, Mis	2,560		160		x
318		Cypress, Mis	2,635		5,850	W	x
319		Bethel, Mis	2,800		100		x
320		Aux Vases, Mis	2,940		15,160	W	x
321		Ohara, Mis	3,020		x	W	x
322		Rosiclare, Mis	3,030		x	W	x
323		McClosky, Mis	3,050		x	W	x
324		St. Louis, Mis	3,025		240		x
325		Salem, Mis	3,590		1,560		x
326		Warsaw, Mis*	3,600		10		x
327		Devonian, Dev*	4,350		20		0
328		2 or more pays					
329	Clay City W; Clay; 2N; 7E			1941	560		82
330		Cypress, Mis	2,700		10		0
331		Aux Vases, Mis	2,950		80		x
332		McClosky, Mis	3,065		540		x
333	Clifford; Williamson; 8S; 1E			1957	30		3
334		Aux Vases, Mis	2,380		20		x
335		Rosiclare, Mis*	2,470		20		x
336		McClosky, Mis*	2,540		20		x
337		2 or more pays					
338	Coil; Wayne; 1S; 5E			1942	480		26
339		Aux Vases, Mis	2,700		460		28
340		McClosky, Mis	3,065		20		0

*Multiple pay or workover wells only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	2	0	0		x	x	S	8	ML		
	x	4	2	0		x	x	OL	6	MC		
	222	6	0	0	4					A	Mis	3,452
	x	1	0	0		38	x	S	13	Af		
	x	0	0	0		x	x	S	12	Af		
	x	4	0	0		37	0.14	S	14	Af		
		1	0	0								
391	x	457	5	2	306					AM	Dev	1,717
Production												
	x	42	0	0		32	x	S	x	AM		
	x	83	0	0		30	x	S	x	AM		
	x	328	1	1		32	x	S	10	AM		
	x	14	4	1		x	x	S	50	AM		
	482	10	0	1	4					N	Mis	3,919
	x	0	0	0		x	x	S	6	NL		
	x	4	0	0		x	x	L	10	NC		
	x	0	0	0		x	x	L	x	NC		
	x	5	0	1		40	0.17	OL	4	NC		
		1	0	0								
191	4,744	122	0	1	104					A	Mis	3,427
	x	2	0	0		x	x	S	3	ALf		
	x	28	0	0		37	0.20	S	24	ALf		
	x	1	0	0		x	x	S	22	ALf		
	x	29	0	1		36	x	S	6	ALf		
	x	0	0	0		x	x	S	40	ALf		
	x	9	0	0		36	x	S	20	ALf		
	x	27	0	0		36	x	S	21	ALf		
	x	1	0	0		36	x	OL	5	ACf		
	x	0	0	0		x	x	LS	6	ACf		
	x	10	0	0		37	x	OL	7	ACf		
		15	0	0								
	0	1	0	0	0	x	x	S	13	ML	Mis	3,290
	5	1	0	0	1	x	x	S	14	X	Mis	3,407
4,532	45,478	999	2	1	0	426				A	Ord	4,170
	x	1	1	0		x	x	S	x	A		
	x	50	0	0		36	0.20	S	12	A		
	x	566	0	1		37	0.17	S	20	A		
	x	319	0	0		40	0.38	L	9	A		
	x	59	0	0		40	x	L	22	A		
		2	0	0								
	391	9	0	0	2	38	0.17	S	9	N	Dev	3,021
	24	5	0	1	2	x	x	LS	8	X	Mis	1,829
	629	40	0	1	39	x	x	S	10	NC	Mis	1,785
16,090	73,671	5,130	35	39	1,620						St. P	3,411
1443, 1570, and 1624												
	28	3	0	0	2	34	x	S	6	A	Dev	3,206
6,324	204,718**	4,458	75	78	3,218					A	St. P	7,205
	x	1	0	0		x	x	S	6	AL		
	x	8	0	0		37	x	S	15	AL		
	x	421	5	7		34	x	S	15	AL		
	x	3	0	0		x	x	S	15	AL		
	x	1,333	36	20		39	x	S	15	AL		
	x	117	4	1		38	x	OL	5	AC		
	x	305	20	7		38	x	LS	8	AC		
	x	2,059	21	24		40	x	OL	10	AC		
	x	9	0	0		x	x	L	3	A		
	x	69	3	0		x	x	L	10	A		
	x	0	0	0		x	x	L	17	A		
	x	0	0	0		x	x	L	10	A		
		263	10	9								
	1,838	22	0	0	15					A	Dev	4,973
	20	1	0	0		x	x	S	10	AL		
	x	1	0	0		x	x	S	7	AL		
	x	20	0	0		39	0.12	OL	15	AL		
	6	2	1	0	2						Mis	2,625
	x	2	1	0		x	x	S	7	X		
	x	1	0	0		x	x	LS	7	X		
	x	1	0	0		x	x	L	5	X		
		1	0	0								
	1,447	17	0	0	0	12				A	Mis	3,250
	1,420	16	0	0		39	0.12	S	10	A		
	1	1	0	0		x	x	OL	15	AC		

**Includes 509,000 bbls. omitted in 1957.

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
341	Coil N; Wayne; 1S; 5E	Aux Vases, Mis	2,841	1958	10		1
342	Coil W; Jefferson; 1S; 4E			1942	370		24
343		Aux Vases, Mis	2,720		130		x
344		Ohara, Mis	2,790		200		x
345		Rosiclare, Mis*	2,805		40		x
346		McClosky, Mis	2,880		240		x
347		2 or more pays					
348	Collinsville; Madison; 3N; 8W	Silurian, Sil	1,305	1909	40		abd 1921
349	Colmar-Plymouth; Hancock, McDonough; 4–5N; 4–5W	Hoing, Dev	450	1914	2,580		56
350	Concord C; White; 6S; 10E			1942	1,890	24	534
351		Tar Springs, Mis	2,270		210		x
352		Hardinsburg, Mis	2,510		310		x
353		Cypress, Mis	2,625		230		x
354		Aux Vases, Mis	2,905		510	W	x
355		Ohara, Mis	2,930		40		x
356		Rosiclare, Mis	3,035		60	W	x
357		McClosky, Mis	2,990		1,120	W	x
358		2 or more pays					
359	Concord E C; White; 6–7S; 10E			1942	380		103
360		Waltersburg, Mis	2,140		30		x
361		Tar Springs, Mis	2,175		60		x
362		Cypress, Mis	2,540		180		x
363		Renault, Mis	2,800		20		x
364		Aux Vases, Mis	2,825		60		x
365		Ohara, Mis	2,895		40		x
366		Rosiclare, Mis	2,895		100		x
367		McClosky, Mis	2,965		30		x
368		2 or more pays					
369	Cooks Mills C;†Coles, Douglas; 13–14N;			1941	3,030		209
370	7–8E	Cypress, Mis	1,600		10		x
371		Aux Vases, Mis	1,765		20		x
372		Rosiclare, Mis	1,800		3,010		x
373		McClosky, Mis	1,840		20		x
374		2 or more pays					
375	Cordes; Washington; 3S; 3W	Bethel, Mis	1,260	1939	1,310	205	252
376	Corinth; Williamson; 8S; 4E			1957	120		52
377		Aux Vases, Mis	2,885		90		x
378		Ohara, Mis	2,929		20		x
379		Rosiclare, Mis	2,985		40		x
380		2 or more pays					
381	Corinth E; Williamson; 8S; 4E	McClosky, Mis	3,035	1957	20		3
382	Corinth N; Williamson; 8S; 4E	Aux Vases, Mis	2,935	1957	10		1
383	Cottage Grove; Saline; 9S; 7E	Ohara, Mis	2,770	1955	20		1
384	Coulterville N; Washington; 3S; 5W	Silurian, Sil	2,290	1958	40		4
385	Covington S; Wayne; 2S; 6E	McClosky, Mis	3,310	1943	320	.2	1
386	Craig; Perry; 4S; 4W	Trenton, Ord	3,650	1948	20		abd 1951
387	Cravat; Jefferson; 1S; 1E	Bethel, Mis	2,070	1939	120		7
388	Cravat W; Jefferson; 1S; 1E	Pennsylvanian, Pen	1,045	1956	60		8
389	Crossville; White; 4S; 10E			1946	130		abd 1952; rev
390		Bethel, Mis	2,880		30		0
391		Aux Vases, Mis	3,030		30		0
392		Ohara, Mis	3,100		20		0
393		McClosky, Mis	3,120		60		0
394		2 or more pays					
395	Crossville W; White; 4S; 10E			1952	200		64
396		Aux Vases, Mis	3,030		80		abd 1953; x
397		Ohara, Mis	3,110	1958	20		x
398		Rosiclare, Mis	3,102	1958	10		x
399		McClosky, Mis	3,185		140		x
400		2 or more pays					
401	Dahlgren; Hamilton; 3S; 5E			1941	700		3
402		McClosky, Mis	3,300		700		3
403		Warsaw, Mis	4,110		20		0
404	Dale C; Franklin, Hamilton, Saline;			1940	17,180	121	2,477
405	5–7S; 4–7E	Tar Springs, Mis	2,430		400		x
406		Hardinsburg, Mis*	2,480		100		x
407		Cypress, Mis	2,700		900		x
408		Paint Creek, Mis	2,950		230		x
409		Bethel, Mis	2,975		2,100	W	x
410		Aux Vases, Mis	3,150		12,580	W	x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	1	1	1	0	1	x	x	S	x	X	Mis	2,942
	626	20	1	0	12					A	Mis	3,022
	x	7	1	0		x	x	S	15	AL		
	x	1	0	0		x	x	L	7	AC		
	x	0	0	0		x	x	L	x	AC		
	x	6	0	0		x	x	L	8	AC		
		6	1	0								
	1	6	0	0	0	x	x	L	20	ML	St. P	2,177
	4,201	501	4	0	203	38	0.38	S	21	AL	St. P	815
261	5,265	156	13	0	145					A	Mis	3,138
	x	21	1	0		36	x	S	11	AL		
	x	28	11	0		x	x	S	7	A		
	x	15	0	0		x	x	S	10	AL		
	x	30	3	0		36	0.15	S	14	AL		
	x	2	0	0		x	x	L	8	AC		
	x	2	0	0		x	x	L	8	AC		
	x	44	0	0		37	x	L	10	AC		
		14	0	0								
	507	37	1	2	26					A	Mis	3,125
	x	3	0	0		37	x	S	10	A		
	x	5	0	0		x	x	S	4	A		
	x	16	0	2		x	x	S	6	A		
	x	2	1	0		x	x	L	6	A		
	x	3	0	0		x	x	S	12	A		
	x	2	0	0		x	x	L	6	AC		
	x	2	1	0		x	x	S	5	AC		
	x	1	0	0		x	x	L	2	AC		
		5	1	0								
	1,996	226	4	4	212					A	Dev	3,028
	x	1	0	0		x	x	S	20	A		
	x	1	0	0		x	x	S	15	A		
	x	222	4	4		36	x	S	9	A		
	x	1	0	0		x	x	L	4	A		
		1	0	0								
2,345	7,787	154	5	0	98	36	0.19	S	14	A	Dev	2,887
	104	10	3	0	10					X	Mis	3,150
	x	9	3	0		x	x	S	10	X		
	x	1	1	0		x	x	L	x	X		
	x	2	0	0		x	x	L	10	X		
		3	2	0								
	9	1	0	0	1	x	x	L	10	X	Mis	3,113
	3	1	0	0	1	x	x	S	16	X		
	10	1	0	0	1	x	x	L	x	X	Mis	2,977
	4	2	2	0	2	x	x	L	x	X	Ord	3,204
x	171	8	0	0	2	39	0.18	L	5	AC	Mis	3,397
	2	1	0	0	0	35	x	L	20	A	Ord	3,735
	344	11	0	0	7	35	0.23	S	10	A	Mis	2,363
	8	6	4	0	6	x	x	S	10	X	Mis	2,320
1956; abd 1958	16	11	0	4	0					M	Mis	3,251
	x	3	0	0		x	x	S	9	ML		
	x	2	0	2		x	x	S	20	ML		
	x	1	0	0		x	x	L	3	MC		
	x	4	0	1		x	x	L	5	MC		
		1	0	1								
	193	13	3	1	11					M	Mis	3,247
rev 1956												
	x	7	2	0		x	x	S	8	ML		
	x	1	1	0		x	x	L	x	M		
	x	1	1	0		x	x	L	x	M		
	x	7	2	1		x	x	L	x	MC		
		2	2	0								
	1,187	44	0	0	2					A	Dev	5,299
	1,185	43	0	0		39	0.16	L	11	A		
	2	1	0	0		x	x	L	15	A		
595	63,877	1,337	58	12	1,057					A	Dev	5,345
	x	25	0	0		x	x	S	25	A		
	x	0	0	0		x	x	S	10	A		
	x	49	0	0		x	x	S	15	A		
	x	10	0	0		36	x	S	18	A		
	x	110	0	0		39	0.19	S	18	A		
	x	884	48	10		39	0.15	S	20	A		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
411		Ohara, Mis	3,110		2,120		x
412		Rosiclare, Mis	3,130		420		x
413		McClosky, Mis	3,150		2,260		x
414		2 or more pays					
415	Decatur; Macon; 16–17N; 2E	Silurian, Sil	2,000	1953	120		1
416	Decatur N; Macon; 17N; 3E	Silurian, Sil	2,200	1954	20		abd 1955
417	Deering City; Franklin; 7S; 3E	Aux Vases, Mis	2,810	1957	40		43
418	Divide; Jefferson; 1S; 3–4E			1943	400		55
419		Ohara, Mis*	2,705		20		x
420		Rosiclare, Mis*	2,770		20		x
421		McClosky, Mis	2,750		320		x
422		St. Louis, Mis	2,850		140		x
423		2 or more pays					
424	Divide E; Jefferson; 1S; 4E			1947	700	27	64
425		Aux Vases, Mis	2,620		110		x
426		Rosiclare, Mis	2,700		60		x
427		McClosky, Mis	2,750		600	W	x
428		2 or more pays					
429	Divide S; Jefferson; 2S; 3E	McClosky, Mis	2,880	1948	100		3
430	Divide W; Jefferson; 1S; 3E			1944	1,680		169
431		Ohara, Mis	2,680		120		x
432		Rosiclare, Mis	2,700		320		x
433		McClosky, Mis	2,750		1,480		x
434		St. Louis, Mis	2,810		100		x
435		2 or more pays					
436	Dix S; Jefferson; 1S; 2E	Bethel, Mis	1,950	1941	20		abd 1946
437	Dubois Cent; Washington; 3S; 1W			1954	80		6
438		Bethel, Mis	1,335		40		x
439		Rosiclare, Mis	1,530		60		x
440		2 or more pays					
441	Dubois C;† Washington; 3S; 1–2W			1939	1,150		102
442		Cypress, Mis	1,230		800		x
443		Bethel, Mis	1,325		500		x
444		2 or more pays					
445	Dudley;† Edgar; 13–14N; 13W			1948	580		55
446		Upper Dudley, Pen	310		260		x
447		Lower Dudley, Pen	410		560		x
448	Dudleyville E; Bond; 4–5N; 2–3W	Devonian, Dev	2,370	1954	40		.2
449	Dupo; St. Clair; 1N, 1S; 10W	Trenton, Ord	700	1928	1,000		7
450	Eberle; Effingham; 6N; 6E			1947	130		7
451		Cypress, Mis	2,475		10		x
452		Rosiclare, Mis	2,680		40		x
453		McClosky, Mis	2,820		80		x
454	Edinburg; Christian; 14N; 3W	Cedar Valley, Dev	1,810	1949	20		abd 1951
455	Edinburg S; Christian; 14N; 3W	Hibbard, Dev	1,795	1955	40		1
456	Edinburg W; Christian; Sangamon;			1954	720		99
457	14N; 3–4W	Devonian, Dev	1,660		60		x
458		Silurian, Sil	1,690		700		x
459		2 or more pays					
460	Elba; Gallatin; 8S; 8E			1955	150		3
461		Cypress, Mis	2,617	1958	10		x
462		Bethel, Mis	2,660		50		x
463		Renault, Mis*	2,770		10		x
464		Aux Vases, Mis	2,780		50		x
465		Ohara, Mis	2,820		80		x
466		2 or more pays					
467	Elbridge; Edgar; 12–13N; 11W			1949	360		34
468		Pennsylvanian, Pen	760		20		x
469		Fredonia, Mis	950		360		x
470		Devonian, Dev*	1,950		20		0
471	Eldorado C;† Saline; 8S; 6–7E			1941	2,330		399
472		Palestine, Mis	1,920		220		x
473		Waltersburg, Mis	2,125		1,340		x
474		Tar Springs, Mis	2,200		130		x
475		Hardinsburg, Mis	2,350		130		x
476		Cypress, Mis	2,575		70		x
477		Paint Creek, Mis	2,680		60		x
478		Aux Vases, Mis	2,900		500		x
479		Ohara, Mis	2,900		40		x
480		Rosiclare, Mis	2,900		20		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	56	1	0		38	0.22	L	10	A		
	x	11	1	0		38	x	LS	7	A		
	x	60	8	1		40	0.19	L	7	A		
		131	0	1								
	14	6	0	0	1	x	x	L	7	MU	Ord	2,800
	.1	1	0	0	0	x	x	L	10	MU	Sil	2,240
	56	4	2	0	4	x	x	S	20	X	Mis	2,875
	582	20	0	0	14					A	Mis	2,951
	x	0	0	0		x	x	L	11	AC		
	x	0	0	0		x	x	LS	5	AC		
	x	12	0	0		39	x	L	6	AC		
	x	5	0	0		x	x	L	7	AC		
		3	0	0								
54	1,462	41	0	0	29					A	Mis	2,911
	x	9	0	0		38	x	S	10	AL		
	x	3	0	0		39	x	L	10	AL		
	x	28	0	0		38	x	L	5	AC		
		1	0	0								
	193	5	0	2	3	35	x	L	5	X	Mis	2,981
	3,819	86	4	1	72					A	Mis	3,635
	x	1	0	0		x	x	L	10	AC		
	x	11	0	0		x	x	LS	6	AC		
	x	59	4	1		37	0.21	L	6	AC		
	x	5	1	0		x	x	L	7	AC		
		12	1	0								
	13	2	0	0	0	x	x	S	8	N	Mis	2,283
	51	6	2	1	4					X	Dev	3,100
	x	4	2	1		x	x	S	12	X		
	x	3	0	1		x	x	L	8	X		
		1	0	1								
	964	103	3	1	93					A	Ord	4,217
	x	67	3	0		x	x	S	10	AL		
	x	34	0	1		32	0.26	S	10	AL		
		2	0	0								
	760	74	0	0	62					M	St. P	2,997
	x	20	0	0		36	x	S	20	ML		
	x	54	0	0		25	x	S	50	ML		
	2.5	2	0	0	1	x	x	L	5	X	Ord	3,397
	2,843	320	0	0	30	33	0.70	L	50	A	Ord	1,800
	91	7	0	0	6					N	Mis	2,882
	x	1	0	0		36	x	S	10	NL		
	x	2	0	0		x	x	LS	5	NC		
	x	4	0	0		36	x	L	7	N		
	0	1	0	0	0	x	x	L	2	A	Dev	1,853
	4	2	0	0	2	x	x	LS	13	X	Sil	1,902
	1,075	35	1	0	32					A	Ord	2,285
	x	3	0	0		x	x	S	6	A		
	x	34	1	0		x	x	L	8	A		
		2	0	0								
	23	10	3	0	6					X	Mis	2,991
	x	1	1	0		x	x	S	x	X		
	x	3	0	0		x	x	S	10	X		
	x	0	0	0		x	x	L	3	X		
	x	2	1	0		x	x	S	5	X		
	x	3	2	0		x	x	L	11	X		
		3	1	0								
	1,350	38	0	3	24					D	Dev	2,093
	x	2	0	0		x	x	S	3	D		
	x	36	0	3		x	x	L	3	D		
	x	0	0	0		x	x	L	20	D		
	5,903	220	0	5	204					A	Mis	3,606
	x	19	0	3		x	x	S	20	AL		
	x	131	0	1		x	x	S	25	AL		
	x	9	0	0		x	x	S	15	AL		
	x	8	0	1		x	x	S	8	AL		
	x	4	0	0		x	x	S	8	AL		
	x	2	0	0		x	x	S	18	AL		
	x	35	2	0		x	x	S	12	AL		
	x	1	0	0		x	x	L	5	AC		
	x	0	0	0		x	x	LS	4	AC		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
481		McClosky, Mis	2,975		40		x
482		2 or more pays					
483	Eldorado E;† Saline; 8S; 7E			1953	260		20
484		Palestine, Mis	1,915		10		x
485		Tar Springs, Mis	2,190		20		x
486		Cypress, Mis	2,515		30		x
487		Aux Vases, Mis	2,885		190		x
488		Rosiclare, Mis	2,975		20		0
489		2 or more pays					
490	Eldorado W; Saline; 8S; 6E			1955	50		9
491		Palestine, Mis	1,940		20		x
492		Renault, Mis	2,910		20		x
493		Aux Vases, Mis	2,960		20		x
494		2 or more pays		1955			
495	Elk Prairie; Jefferson; 4S; 2E	McClosky, Mis	2,735	1938	20		abd 1940
496	Elkton; Washington; 2S; 4W	Bailey, Dev	2,340	1955	40		0
497	Elkville; Jackson; 7S; 1W	Bethel, Mis	2,000	1941	10		0
498	Ellery E; Edwards; 2S; 10E			1952	320	30	50
499		Aux Vases, Mis	3,180		160	W	x
500		Ohara, Mis	3,255		180	W	x
501		Rosiclare, Mis	3,255		40		x
502	Ellery N; Edwards; 2S, 10E			1942	140		.5 abd 1943; rev and
503		Bethel, Mis	3,100		20		x
504		Aux Vases, Mis*	3,230		10		x
505		Rosiclare, Mis	3,345		80		x
506		McClosky, Mis	3,420		40		0
507		2 or more pays					
508	Ellery S; Edwards; 2–3S; 10E			1943	200		4 abd 1952; rev 1953
509		Aux Vases, Mis	3,200		40		4
510		McClosky, Mis	3,300		160		0
511	Elliottstown; Effingham; 7N; 7E	Rosiclare, Mis	2,730	1947	20		abd 1951
512	Elliottstown E; Effingham; 7N; 7E	Cypress, Mis	2,485	1954	10		abd 1956
513	Elliottstown N; Effingham; 7N; 7E	Cypress, Mis	2,430	1953	20		.5 abd 1958
514	Enfield; White; 5S; 8E			1950	280	9	65 abd 1951;
515		Aux Vases, Mis	3,250		140	P	x
516		Ohara, Mis	3,310		40		x
517		McClosky, Mis	3,385		100	W	x
518	Evers; Effingham; 8N; 7E			1948	70		6 abd 1949;
519		Rosiclare, Mis	2,610		60		8
520		McClosky, Mis	2,660		10		0
521	Evers S; Effingham; 7N; 7E	Rosiclare, Mis	2,650	1948	10		abd 1951
522	Ewing; Franklin; 5S; 3E			1944	150		5
523		Aux Vases, Mis	2,835		10		1
524		McClosky, Mis	2,970		140		4
525	Ewing E; Franklin; 5S; 3E	Ohara, Mis	3,010	1956	20		x
526	Exchange; Marion; 1N; 3E			1943	80		1
527		Ohara, Mis*	2,695		40		x
528		McClosky, Mis	2,730		80		x
529	Exchange E; Marion; 1N; 4E			1955	320		50
530		Ohara, Mis	2,775		20		x
531		Rosiclare, Mis	2,780		180		x
532		McClosky, Mis	2,840		180		x
533		St. Louis, Mis	2,940		20		x
534		2 or more pays					
535	Exchange N; Marion; 1N; 3–4E	McClosky, Mis	2,715	1951	60		1 abd 1952;
536	Exchange W; Marion; 1N; 3E	McClosky, Mis	2,650	1957	40		3
537	Fairman; Clinton, Marion; 3N; 1E, 1W			1939	670		69
538		Bethel, Mis	1,435	1939	480		16
539		Trenton, Ord	3,950	1957	300		53
540	Fitzgerrell; Jefferson; 4S; 1E			1944	10		abd 1952

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	2	0	0		34	0.14	L	5	AC		
		15	0	0								
	240	20	0	2	14					A	Mis	3,102
	x	1	0	0		x	x	S	10	AL		
	x	1	0	1		x	x	S	10	AL		
	x	2	0	1		x	x	S	20	AL		
	x	14	0	0		x	x	S	6	AL		
	x	1	0	0		x	x	L	4	AC		
		1	0	0								
	32	5	2	0	4					X	Mis	3,138
	x	2	1	0		x	x	S	18	X		
	x	2	1	0		x	x	L	6	X		
	x	2	0	0		x	x	L	6	X		
		1	0	0								
	1	1	0	0	0	x	x	L	7	X	Mis	2,956
	3	2	0	0	1	x	x	L	30	X	Dev	2,485
	4	1	0	0	0	36	0.22	S	10	X	Mis	2,387
30	562	24	0	0	24					M	Mis	3,390
	x	13	0	0		x	x	S	35	ML		
	x	11	0	0		x	x	L	6	MC		
	x	2	0	0		x	x	L	4	MC		
	23	6	0	0	1					M	Mis	3,496
abd 1951; rev 1954												
	x	1	0	0		x	x	S	35	ML		
	x	0	0	0		x	x	S	12	ML		
	x	3	0	0		x	x	S	8	ML		
	3	1	0	0		37	0.19	L	7	MC		
		1	0	0								
	170	8	0	0	3					M	Mis	3,434
	28	4	0	0		x	x	S	15	ML		
	138	4	0	0		38	x	L	9	MC		
	14	1	0	0	0	x	x	S	8	HL	Mis	2,884
	3	1	0	0	0	x	x	S	5	HL	Mis	2,867
	11	2	0	1	0	x	x	S	4	HL	Mis	2,865
25	400	17	0	0	15					A	Mis	4,259
rev 1952												
	x	10	0	0		x	x	S	10	AL		
	x	2	0	0		x	x	L	4	AC		
	x	5	0	0		x	x	L	8	AC		
	69	4	0	0	3					A	Mis	2,808
rev 1953												
	62	3	0	0		x	x	L	7	AL		
	1	1	0	0		x	x	L	4	AC		
	2	1	0	0	0	x	x	LS	8	AC	Mis	2,771
	499	8	0	0	3					A	Mis	3,094
	55	1	0	0		37	x	S	8	AL		
	444	7	0	0		x	x	L	7	A		
	x	1	0	0	1	x	x	L	10	X		
	61	2	0	0	1					M	Mis	2,869
	x	0	0	0		x	x	L	10	MC		
	x	2	0	0		x	x	L	8	MC		
	301	16	0	1	14					X	Mis	3,006
	x	1	0	0		x	x	L	14	X		
	x	7	0	0		x	x	S	11	X		
	x	6	0	0		x	x	L	4	X		
	x	1	0	1		x	x	L	8	X		
		1	0	0								
	8	3	0	1	1	x	x	L	6	MC	Mis	2,831
rev 1955												
	6	2	0	0	2	x	x	L	6		Mis	2,779
	1,704	58	11	0	38					A	Ord	4,100
	1,639	44	1	0		37	0.27	S	10	A		
	65	14	10	0		x	x	L	20	A		
	16	1	0	0	0					X	Mis	3,012

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
541		Bethel, Mis	2,760		10		0
542		Aux Vases, Mis*	2,800		10		0
543	Flora S; Clay; 2N; 6E	McClosky, Mis	2,985	1946	100		4
544	Francis Mills; Saline; 7S; 7E	Cypress, Mis	2,675	1952	10		5
545	Francis Mills S; Saline; 7S; 7E	Ohara, Mis	3,010	1955	20		abd 1957
546	Freeburg;† St. Clair; 1–2S; 7W	Cypress, Mis	380	1955	20		x
547	Friendsville Central; Wabash; 1N; 13W	Bethel, Mis	2,330	1946	50		0
548	Friendsville N; Wabash; 1N; 12–13W	Biehl, Pen	1,620	1946	120	x	2
549	Frogtown; Clinton; 2N; 3–4W	Carlyle (Cypress) Mis	950	1918	300		0
550	Frogtown N; Clinton; 2–3N; 3–4W			1951	580		abd 1933; 75
551		St. Louis, Mis	1,200	1951	100		x
552		Devonian-Silurian	2,250		580		x
553	Gards Point C; Wabash; 1N; 14W	Ohara, Mis	2,870	1951	800		133
554	Gays; Moultrie; 12N; 6E			1946	100		10
555		Aux Vases, Mis	1,970		100		abd 1950; x
556		Devonian, Dev*	3,205		20		x
557		2 or more pays					
558	Germantown E; Clinton; 1–2N; 4W	Silurian, Sil	2,350	1956	600	P	284
559	Gila; Jasper; 7–8N; 9E	McClosky, Mis	2,850	1957	540		349
560	Gillespie-Wyen; Macoupin; 8N; 6W	Unnamed, Pen	650	1915	45		x
561	Glenarm; Sangamon; 14N; 5W	Silurian, Sil	1,680	1955	20		abd 1957
562	Goldengate C; Edwards, Wayne, White;			1938	7,110	20	498
563	2–4S; 9–10E	Bethel, Mis	3,110		280		x
564		Aux Vases, Mis	3,180		1,950		x
565		Ohara, Mis	3,250		1,540	W	x
566		Rosiclare, Mis	3,275		1,880	W	x
567		McClosky, Mis	3,310		3,020		x
568		St. Louis, Mis	3,430		40		x
569		2 or more pays					
570	Goldengate E; Wayne; 3S; 9E	Ohara, Mis	3,290	1951	20		abd 1957
571	Goldengate N C; Wayne; 1–2S; 8–9E			1945	640		55
572		Bethel, Mis*	3,095		10		x
573		Aux Vases, Mis	3,235		270		x
574		Ohara, Mis*	3,300		120		x
575		Rosiclare, Mis	3,325		180		x
576		McClosky, Mis	3,350		200		x
577		2 or more pays					
578	Grandview;† Edgar; 12–13N; 13W	Pennsylvanian, Pen	560	1945	60		1
579	Grayson; Saline; 8S; 7E			1957	40		3
580		Cypress, Mis*	2,515		10		x
581		McClosky, Mis	2,920		40		x
582		2 or more pays					
583	Greenville;† Bond; 5N; 3W	Lingle, Dev	2,240	1957	10		0
584	Half Moon; Wayne; 1S; 9E			1947	1,210		abd 1923; rev 1957; 148
585		Aux Vases, Mis	3,190		20		x
586		Ohara, Mis	3,280		740		x
587		Rosiclare, Mis	3,280		200		x
588		McClosky, Mis	3,300		400		x
589		2 or more pays					
590	Harco;† Saline; 8S; 5E			1954	720	.1	143
591		Paint Creek, Mis	2,675		30		x
592		Hardinsburg, Mis*	2,330		10		x
593		Aux Vases, Mis	2,860		620	W	x
594		Ohara, Mis	2,965		80		x
595		Rosiclare, Mis	2,970		140		x
596		2 or more pays					
597	Harco E;† Saline; 8S; 5E			1955	240		22
598		Cypress, Mis	2,575		60		x
599		Aux Vases, Mis	2,865		160		x
600		Ohara, Mis	2,880		40		x
601		2 or more pays					
602	Harrisburg;† Saline; 8S; 6E			1954	90		4
603		Waltersburg, Mis	2,020		80		4
604		Tar Springs, Mis	2,115		10		0
605	Harrisburg S; Saline; 9S; 6E	Cypress, Mis	2,300	1955	10		abd 1956
606	Harristown; Macon; 16N; 1E	Silurian, Sil	2,050	1954	140		40
607	Herald C;† Gallatin, White; 6–8S; 9–10E			1939	4,940	83	499
608		Pennsylvanian, Pen	1,060		10		x
609		Pennsylvanian, Pen	1,500		160		x
610		Pennsylvanian, Pen	1,750		30		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	1	0	0		x	x	S	5	X		
	x	0	0	0		x	x	S	x	X		
	158	4	0	0	3	39	x	L	6	AC	Mis	3,361
	63	1	0	0	1	x	x	S	5	X	Mis	3,238
	6	1	0	0	0	x	x	L	11	X	Mis	3,180
	x	2	0	2	0	x	x	S	30	X	Ord	2,000
	31	5	0	0	0	x	x	S	15	MC	Mis	2,630
x	208	13	0	0	4	x	x	S	12	MC	Mis	2,592
	x	14	0	0	0	32	x	S	7	ML	Tren	3,290
rev 1949												
	1,639	34	0	0	28					D	Sil	2,456
	x	5	0	0		x	x	L	10	D		
	x	29	0	0		x	x	L	8	R		
	508	34	5	3	30	x	x	L	6	MC	Mis	2,961
	35	5	0	0	1					M	Dev	3,305
rev 1955												
	x	4	0	0		x	x	S	5	ML		
	x	0	0	0		x	x	L	3	MC		
		1	0	0								
	976	27	0	0	27	x	x	L	30	R	Tren	3,310
	349	27	26	1	26	x	x	OL	3	MC	Mis	2,952
	x	23	0	0	2	30	x	S	x	T	Ord	2,560
	1	1	0	0	0	x	x	L	9	X	Sil	1,720
31	11,119	421	18	8	332					A	Mis	3,607
	x	21	0	0		x	x	S	11	HL		
	x	146	12	2		40	0.14	S	15	AL		
	x	31	0	0		39	x	OL	6	AC		
	x	36	5	1		39	x	LS	7	AC		
	x	102	5	1		40	0.19	OL	7	AC		
	x	1	0	0		x	x	L	10	HL		
		91	3	1								
	5	1	0	0	0	x	x	L	3	X	Mis	3,420
	393	43	4	3	33					M	Mis	3,509
	x	0	0	0		x	x	S	3	ML		
	x	20	4	1		40	x	S	25	ML		
	x	0	0	0		37	x	L	4	MC		
	x	5	0	0		37	x	L	5	MC		
	x	6	0	1		x	x	L	6	MC		
		12	0	1								
	4	6	0	0	4	x	x	S	10	M	Ord	2,694
	8	2	0	0	1						Mis	3,024
	x	0	0	0		x	x	S	6	X		
	x	1	0	0		x	x	L	6	X		
		1	0	0								
	0	1	0	1	0	x	x	L	5	A	Trent	3,184
abd 1958												
	2,027	62	3	0	59					M	Mis	3,510
	x	1	0	0		x	x	S	18	ML		
	x	33	3	0		x	x	L	11	MC		
	x	5	1	0		x	x	L	4	MC		
	x	19	0	0		27	x	L	10	MC		
		6	1	0								
x	854	68	9	5	59					X	Mis	3,163
	x	3	0	1		x	x	S	8	X		
	x	0	0	0		x	x	S	6	X		
	x	53	9	3		x	x	S	15	X		
	x	3	0	1		x	x	L	10	X		
	x	6	0	0		x	x	LS	10	X		
		3	0	0								
	209	21	0	1	18					X	Mis	3,031
	x	5	0	1		x	x	S	20	X		
	x	10	0	0		x	x	S	8	X		
	x	2	0	0		x	x	L	14	X		
		1	0	0								
	118	9	0	0	6					X	Mis	2,930
	116.5	8	0	0		x	x	S	14	X		
	.5	1	0	0		x	x	S	6	X		
	0	1	0	0	0	x	x	S	x	X	Mis	2,352
	72	7	3	1	5	x	x	L	3	MU	Sil	2,107
91	9,898	504	4	10	400					A	Mis	3,394
	x	1	0	0		29	x	S	10	AL		
	x	13	0	0		29	x	S	15	AL		
	x	3	0	0		29	x	S	18	AL		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958	
						Secondary recovery	Total
611		Degonia, Mis	1,920		30		x
612		Clore, Mis*	1,965		20		x
613		Palestine, Mis	1,940		10		x
614		Waltersburg, Mis	2,240		420	W	x
615		Tar Springs, Mis	2,260		450		x
616		Cypress, Mis	2,660		1,500	W	x
617		Paint Creek, Mis*	x		10		x
618		Bethel, Mis	2,790		210		x
619		Aux Vases, Mis	2,920		2,110	W	x
620		Ohara, Mis	2,965		140		x
621		Rosiclare, Mis	3,005		140		x
622		McClosky, Mis	3,010		420		x
623		2 or more pays					
624	Hidalgo; Jasper; 8N; 10E	McClosky, Mis	2,575	1940	60		abd 1952
625	Hidalgo N; Cumberland; 9N; 9E	Rosiclare, Mis	2,655	1946	40		3
626	Hill; Effingham; 6N; 6E	McClosky, Mis	2,565	1943	80		abd 1950
627	Hill E; Effingham; 6N; 6E			1954	430	X	99
628		Cypress, Mis	2,460		250	W	x
629		Aux Vases, Mis	2,650		10		x
630		Rosiclare, Mis	2,660		40		x
631		McClosky, Mis	2,700		160		x
632		2 or more pays					
633	Hoffman; Clinton; 1N; 2W			1939	260		8
634		Cypress, Mis	1,190		120		x
635		Bethel, Mis	1,320		180		x
636		2 or more pays					
637	Hoodville E; Hamilton; 5S; 7E	McClosky, Mis	3,365	1944	20		abd 1944
638	Hord; Clay; 5N; 6E	Ste. Genevieve, Mis	2,800	1950	250		44
639	Hord N; Effingham; 6N; 6E	Cypress, Mis	2,420	1958	20		4
640	Hord S C; Clay; 5N; 6E			1942	560		20 abd 1945; rev 1951
641		Aux Vases, Mis	2,735		20		x
642		Ste. Genevieve, Mis	2,790		540		x
643	Hornsby S; Macoupin; 8N; 6W	Pennsylvanian, Pen	640	1956	10		abd 1957
644	Hoyleton W; Washington; 1S; 2W	Clear Creek, Dev	2,895	1955	20		.5
645	Huey; Clinton; 2N; 2W	Bethel, Mis	1,260	1945	100		.5
646	Huey S; Clinton; 1–2N; 2–3W			1953	200		36
647		Cypress, Mis	1,080		110		x
648		Silurian, Sil	2,585		100		x
649	Hunt City; Jasper; 7N; 10E	Rosiclare, Mis	2,540	1945	20		abd 1950
650	Hunt City E; Jasper; 7N; 14W	Fredonia, Mis	1,845	1952	20		abd 1954
651	Hunt City S; Jasper; 7N; 11E	McClosky, Mis	2,445	1947	80		2
652	Ina; Jefferson; 4S; 2–3E			1938	400		119 abd 1946; rev 1954
653		Renault, Mis	2,725		60		x
654		Aux Vases, Mis	2,682	1958	20		x
655		Rosiclare, Mis	2,775		60		x
656		McClosky, Mis	2,775		60		x
657		St. Louis, Mis	3,000		160		x
658		Salem, Mis	3,210		60		x
659		2 or more pays					
660	Ina N; Jefferson; 4S; 3E	McClosky, Mis	2,940	1949	20		abd 1950
661	Inclose;† Clark, Edgar; 12N; 13–14W	Isabel, Pen	345	1941	70		x
662	Ingraham; Clay; 4N; 8E			1942	680	99	103 abd 1945; rev 1954
663		Aux Vases, Mis*	2,915		10		x
664		Rosiclare, Mis	3,000		620	W	x
665		McClosky, Mis	3,075		100		x
666	Inman E C; Gallatin; 7–8S; 10E			1940	3,600	1,180	1,185
667		Pennsylvanian, Pen	780		10		x
668		Pennsylvanian, Pen	1,450		40		x
669		Degonia, Mis	1,690		50		x
670		Clore, Mis	1,725		60		x
671		Palestine, Mis	1,840		50		x
672		Waltersburg, Mis	1,980		600	W	x
673		Tar Springs, Mis	2,080		1,520	W	x
674		Hardinsburg, Mis	2,135		220	W	x
675		Cypress, Mis	2,390		1,460	W	x
676		Aux Vases, Mis	2,715		240		x
677		Ohara, Mis	2,795		20		x
678		Rosiclare, Mis	2,790		20		x
679		McClosky, Mis	2,800		140		x
680		St. Louis, Mis	2,960		20		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	3	0	0		36	x	S	12	AL		
	x	0	0	0		x	x	S	10	AL		
	x	1	0	0		x	x	S	20	AL		
	x	39	0	0		38	x	S	10	A		
	x	36	1	0		37	0.24	S	13	A		
	x	144	2	2		36	0.22	S	14	A		
	x	0	0	0		36	x	S	x	AL		
	x	15	0	4		36	x	S	11	AL		
	x	205	1	2		36	x	S	6	AL		
	x	5	0	1		37	x	L	6	AC		
	x	3	0	0		x	x	L	4	AC		
	x	16	1	1		38	x	L	10	AC		
		25	1	0								
	10	3	0	0	0	37	0.20	L	4	MC	Dev	4,140
	16	2	0	0	2	x	x	S	12	X	Mis	2,776
	41	2	0	0	0	39	x	L	5	N	Mis	2,710
x	686	33	0	0	31					X	Mis	3,251
	x	23	0	0		x	x	S	8	X		
	x	1	1	0		x	x	S	10	X		
	x	1	0	0		x	x	L	5	X		
	x	7	0	0		x	x	L	7	X		
		1	0	0								
	729	48	0	0	27					A	Dev	2,914
	x	12	0	0		x	x	S	11	A		
	x	35	0	0		33	0.21	S	7	A		
		1	0	0								
	1	1	0	0	0	x	x	L	3	N	Mis	3,411
	400	12	0	3	8	x	x	L	5	M	Mis	2,954
	4	2	2	0	2	x	x	S	x	X	Mis	2,860
	952	26	0	0	24					N	Mis	2,975
	x	2	0	0		x	x	S	8	N		
	x	24	0	0		x	x	L	7	NC		
	x	1	0	0	0	x	x	S	1	X	Pen	651
	2	1	0	0	1	x	x	L	12	X	Sil	2,965
	4	7	0	0	1	x	x	S	6	AL	Dev	2,720
	85	17	1	1	13					X	Sil	2,675
	x	12	0	0		x	x	S	5	X		
	x	5	1	1		x	x	L	10	X		
	1	1	0	0	0	x	x	S	10	ML	Mis	2,715
	4	1	0	0	0	40	x	L	6	X	Mis	1,855
	36	4	0	0	2	x	x	L	7	MC	Mis	2,559
	180	24	10	0	21					A	Mis	3,521
	x	6	4	0		x	x	S	14	AL		
	x	2	2	0		x	x	S	26	A		
	x	3	2	0		x	x	S	10	A		
	x	3	2	0		x	x	L	10	A		
	x	8	1	0		36	0.20	L	4	AC		
	x	3	0	0		x	x	L	9	A		
		1	1	0								
	1	1	0	0	0	x	x	L	4	X	Mis	3,150
	x	9	1	0	5	x	x	S	8	AL	Mis	1,600
228	795	33	0	0	27					M	Mis	3,148
	x	0	0	0		x	x	S	15	ML		
	x	28	0	0		37	0.21	L	7	MC		
	x	5	0	0		37	0.21	L	8	MC		
3,503	16,100	364	4	7	325					A	Mis	3,020
	x	4	0	0		38	x	S	10	AF		
	x	1	0	1		x	x	S	4	AF		
	x	1	0	0		37	x	S	10	AF		
	x	1	0	0		37	x	S	8	AF		
	x	1	0	0		37	x	S	13	AF		
	x	39	3	0		38	x	S	18	AF		
	x	127	0	0		36	0.24	S	13	AF		
	x	9	0	0		34	x	S	10	AF		
	x	104	1	3		35	0.23	S	14	AF		
	x	24	0	2		38	x	S	8	AF		
	x	1	0	0		x	x	L	5	AF		
	x	1	0	0		x	x	L	7	AF		
	x	4	0	0		38	x	L	8	AF		
	x	1	0	1		x	x	L	10	AF		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
681		2 or more pays					
682	Inman W C; Gallatin; 7–8S; 9–10E			1940	3,230	113	380
683		Pennsylvanian, Pen	925		40		x
684		Pennsylvanian, Pen	1,630		20		x
685		Biehl, Pen	1,750		60	W	x
686		Palestine, Mis	1,765		40		x
687		Waltersburg, Mis	2,080		100		x
688		Tar Springs, Mis	2,140		830	W	x
689		Hardinsburg, Mis	2,300		220		x
690		Cypress, Mis	2,475		1,420	W	x
691		Paint Creek, Mis	2,610		10		x
692		Renault, Mis	2,775		30		x
693		Aux Vases, Mis	2,790		580	W	x
694		Ohara, Mis	2,815		100		x
695		Rosiclare, Mis	2,815		40		x
696		McClosky, Mis	2,940		280		x
697		2 or more pays					
698	Iola Central; Clay; 5N; 5E	Bethel, Mis	2,420	1954	10		abd 1954
699	Iola C; Clay, Effingham; 5–6N; 5–6E			1939	3,220	122	441
700		Tar Springs, Mis*	1,890		10		x
701		Cypress, Mis	2,125		490	W	x
702		Paint Creek, Mis*	2,255		30	W	x
703		Bethel, Mis	2,290		870	W	x
704		Renault, Mis*	2,320		10		x
705		Aux Vases, Mis	2,325		1,660	W	x
706		Rosiclare, Mis	2,400		960		x
707		McClosky, Mis	2,425		820		x
708		2 or more pays					
709	Iola S; Clay; 4N; 5E			1947	200		10
710		Bethel, Mis	2,490		120		x
711		Rosiclare, Mis	2,590		100		x
712		McClosky, Mis	2,650		40		x
713		2 or more pays					
714	Iola W; Clay; 5N; 5E	McClosky, Mis	2,495	1945	20		abd 1945
715	Irvington; Washington; 1S; 1W			1940	1,270	8	262
716		Barlow, Mis*	1,525		10		x
717		Cypress, Mis	1,380		320	W	x
718		Bethel, Mis	1,535		870		x
719		Clear Creek, Dev	3,090		420		x
720		Trenton, Ord	4,275		120		x
721		2 or more pays					
722	Irvington E; Jefferson; 1S; 1E			1951	280		86
723		Pennsylvanian, Pen	1,030		40		3
724		Cypress, Mis	1,750		60		x
725		Bethel, Mis	1,950		200		x
726		2 or more pays					
727	Irvington N; Washington; 1N, 1S; 1W			1953	260		87
728		Cypress, Mis	1,340		40		x
729		Bethel, Mis	1,470		220		x
730	Iuka; Marion; 2N; 4E			1947	800		48
731		Ohara, Mis	2,650		120		x
732		Rosiclare, Mis*	2,660		100		x
733		McClosky, Mis	2,750		640		x
734		St. Louis, Mis	2,775		300		x
735		2 or more pays					
736	Iuka W; Marion; 2N; 3–4E	McClosky, Mis	2,700	1955	80		2
737	Jacksonville Gas;† Morgan; 15N; 9W	Gas, Pen, Mis	330	1910	60		abd 1939
738	Johnson N; Clark; 9–10N; 14W			1907	2,500	139	x
						see Clark Co. Div.	
739		Kickapoo, Pen	315		200		x
740		Claypool, Pen	415		1,220	W	x
741		Casey, Pen	465		920	W	x
742		Upper Partlow, Pen	535		290	W	x
743		Carper, Mis	1,325		70		x
744	Johnson S; Clark; 9N; 14W			1907	2,270	269	x
						see Clark Co. Div.	
745		Claypool, Pen	390		200	W	x
746		Casey, Pen	450		300	W	x
747		Upper Partlow, Pen	490		1,700	W	x
748		Lower Partlow, Pen	600		870		x
749	Johnsonville C; Wayne; 1N, 1S; 6–7E			1940	9,040	418	1,004
750		Bethel, Mis*	2,950		30		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
		45	0	0								
299	4,765	286	12	1	246					T	Mis	3,094
	x	4	0	0		x	x	S	8	NL		
	x	2	0	0		x	x	S	5	NL		
	x	6	0	0		x	x	S	12	NL		
	x	3	0	0		31	x	S	13	NL		
	x	8	0	0		x	x	S	10	TL		
	x	53	3	1		37	x	S	8	TL		
	x	8	0	0		x	x	S	10	TL		
	x	97	6	0		37	x	S	10	T		
	x	1	0	0		x	x	S	30	T		
	x	1	0	0		x	x	L	7	T		
	x	42	6	0		x	x	S	15	TL		
	x	2	1	0		x	x	L	12	TC		
	x	1	0	0		x	x	L	8	TC		
	x	7	0	0		36	0.19	L	6	TC		
		57	2	0								
	1	1	0	0	0	x	x	S	5	X	Mis	2,723
141	10,201	258	2	2	199					A	Dev	4,227
	x	0	0	0		x	x	S	9	AL		
	x	29	2	0		36	x	S	15	A		
	x	0	0	0		x	x	S	10	AL		
	x	34	5	0		36	0.14	S	12	A		
	x	0	0	0		x	x	L	x	AC		
	x	102	9	1		35	0.25	S	10	A		
	x	25	3	0		37	x	LS	7	A		
	x	27	0	1		38	x	OL	10	A		
		65	7	0								
	212	15	0	0	12					A	Dev	4,325
	x	9	0	0		x	x	S	10	AL		
	x	4	0	0		x	x	L	6	AC		
	x	1	0	0		x	x	L	3	AC		
		1	0	0								
	.5	1	0	0	0	x	x	L	11	MC	Mis	2,613
9	6,577	136	3	2	110					A	Ord	4,440
	x	0	0	0		x	x	L	3	AC		
	x	30	3	0		38	x	S	12	A		
	x	82	0	2		38	0.16	S	12	A		
	x	16	0	0		39	0.27	L	12	A		
	x	5	0	0		38.6	x	L	90	A		
		3	0	0								
	361	26	0	0	25					X	Mis	2,222
	14	4	0	0		x	x	S	15	X		
	x	4	0	0		x	x	S	15	X		
	x	15	0	0		x	x	S	x	X		
		3	0	0								
	640	26	0	0	26					A	Ord	4,334
	x	4	0	0		x	x	S	16	AL		
	x	22	0	0		x	x	S	6	AL		
	688	40	0	0	37					M	Mis	2,911
	x	1	0	0		x	x	L	5	MC		
	x	0	0	0		x	x	L	15	MC		
	x	19	0	0		x	x	L	10	MC		
	x	6	0	0		x	x	L	5	MC		
		14	0	0								
	8	3	0	0	2	x	x	L	5	X	Mis	2,801
	2	8	0	0	0	x	x	LS	5	ML	Ord	1,390
293	x	512	7	5	236					AM	Dev	2,260
for Production												
	x	33	0	0		x	x	S	x	AM		
	x	301	0	0		x	x	S	x	AM		
	x	185	2	2		x	x	S	x	AM		
	x	51	2	0		x	x	S	x	AM		
	x	7	3	3		x	x	S	x	AM		
2,289	x	573	2	1	217					AM	Dev	2,030
for Production												
	x	38	0	0		x	x	S	x	AM		
	x	60	0	0		30	x	S	x	AM		
	x	431	2	0		29	x	S	48	AM		
	x	178	2	1		29	x	S	x	AM		
1,260	32,520	420	3	3	332					A	Dev	5,198
	x	0	0	0		x	x	S	12	AL		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
751		Aux Vases, Mis	3,020		2,490	W	x
752		Ohara, Mis	3,120		600	W	x
753		Rosiclare, Mis	3,150		140		x
754		McClosky, Mis	3,170		8,320	W	x
755		2 or more pays					
756	Johnsonville N; Wayne; 1N; 6E			1943	120		5
757		Ohara, Mis*	3,190		40		x
758		Rosiclare, Mis	3,220		40		x
759		McClosky, Mis*	3,250		40		x
760		2 or more pays					
761	Johnsonville S; Wayne; 1S; 6E			1942	440		17
762		Aux Vases, Mis	3,060		270		x
763		Rosiclare, Mis	3,160		20		x
764		McClosky, Mis	3,200		160		x
765	Johnsonville W; Wayne; 1N, 1S; 5–6E			1942	520		91
766		Bethel, Mis	2,925		10		x
767		Aux Vases, Mis	2,900		170		x
768		Ohara, Mis	2,930		60		x
769		Rosiclare, Mis	3,015		20		x
770		McClosky, Mis	3,100		270		x
771	Junction; Gallatin; 9S; 9E			1939	210	19	20
772		Pennsylvanian, Pen	1,150		30		1
773		Waltersburg, Mis	1,750		140	W	17
774		Hardinsburg, Mis	2,120		10		0
775		Cypress, Mis	2,275		20		x
776		McClosky, Mis*	2,730		20		x
777		2 or more pays					
778	Junction City; Marion; 2N; 1E			1910	130		x
779		Dykstra (Cuba), Pen	510		110		x
780		Wilson, Pen	680	1952	20		.5
781	Junction E; Gallatin; 8–9S; 9E	Waltersburg, Mis	2,000	1953	20		3
782	Junction N; Gallatin; 8–9S; 9E			1946	160		10
783		Pennsylvanian, Pen	1,565		50		x
784		Cypress, Mis	2,450		30		x
785		Aux Vases, Mis	2,725		30		x
786		Rosiclare, Mis	2,860		60		x
787	Keensburg E; Wabash; 2S; 13W			1939	120		abd 1947
788		Ohara, Mis	2,705		40		0
789		McClosky, Mis	2,710		80		0
790	Keensburg S; Wabash; 2–3S; 13W			1944	230	4	17
791		Pennsylvanian, Pen	1,145		60		x
792		Cypress, Mis	2,385		130	W	x
793		Ohara, Mis	2,715		40		1
794	Keenville; Wayne; 1S; 5E			1945	720	113	143
795		Aux Vases, Mis	2,960		250	W	x
796		Ohara, Mis	3,050		80		x
797		Rosiclare, Mis	3,060		20		x
798		McClosky, Mis	3,100		400	W	x
799		2 or more pays					
800	Keenville E; Wayne; 1S; 5E	McClosky, Mis	3,140	1951	60		4
801	Kell; Jefferson; 1S; 3E	McClosky, Mis	2,625	1942	80		1
							abd 1946; rev 1958
802	Kenner; Clay; 3N; 5–6E			1942	860	172	319
803		Tar Springs, Mis	2,200		10		0
804		Bethel, Mis	2,690		670	W	x
805		Renault, Mis	2,761	1958	20		x
806		Aux Vases, Mis	2,835		300		x
807		Rosiclare, Mis	2,875		20		0
808		McClosky, Mis	2,930		20		0
809		2 or more pays					
810	Kenner N; Clay; 3N; 6E			1947	300	x	13
811		Bethel, Mis	2,755		280	W	x
812		McClosky, Mis	2,970		120		x
813	Kenner S; Clay; 2N; 5E	McClosky, Mis	2,870	1950	20		abd 1952
814	Kenner W; Clay; 3N; 5E			1947	310	36	62
815		Cypress, Mis	2,600		300	W	x
816		Bethel, Mis	2,705		200	W	x
817		McClosky, Mis*	2,870		40		x
818		2 or more pays					
819	Keyesport; Clinton; 3N; 2W	Bethel, Mis	1,180	1949	150		13
820	Kincaid C; Christian; 13–14N; 3W	Hibbard, Dev	1,800	1955	1,120		649

*Multiple pay or workover wells only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958			Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
Secondary recovery	Total		Completed	Abandoned	Producing end of year							
	x	94	2	1		39	0.14	S	20	AL		
	x	6	0	0		x	x	OL	10	AC		
	x	5	0	0		38	x	OL	8	AC		
	x	277	1	2		38	0.17	OL	15	AC		
		39	0	0								
	71	5	0	0	4					A	Mis	3,335
	x	0	0	0		38	0.17	OL	3	AC		
	x	4	0	0		x	x	L	8	AC		
	x	0	0	0		38	0.17	OL	3	AC		
		1	0	0								
	528	33	0	0	24					A	Mis	3,300
	x	26	0	0		39	x	S	15	A		
	x	1	0	0		x	x	L	4	AC		
	x	6	0	0		38	x	L	5	AC		
	657	35	6	0	24					M	Mis	3,251
	x	1	0	0		x	x	S	7	ML		
	x	17	0	0		x	x	S	6	ML		
	x	3	0	0		x	x	L	6	MC		
	x	1	0	0		x	x	L	4	MC		
	x	13	6	0		x	x	L	7	MC		
240	544	21	0	0	16					M	Mis	2,818
	19	3	0	0		x	x	S	7	ML		
	509	15	0	0		35	x	S	14	ML		
	5	1	0	0		x	x	S	5	ML		
	x	1	0	0		x	x	S	12	ML		
	x	0	0	0		x	x	L	9	MC		
		1	0	0								
	x	13	1	0	x	x	x	S	8	NL	Dev	3,194
	x	11	0	0		x	x	S	x	NL		
	1	2	1	0		x	x	S	8	NL		
	35	2	0	0	2	x	x	S	14	X	Mis	2,970
	101	14	0	0	11					M	Mis	2,983
	x	5	0	0		x	x	S	16	ML		
	x	3	0	0		x	x	S	10	ML		
	x	3	0	0		x	x	S	4	ML		
	x	3	0	0		x	x	L	6	MC		
	9	3	0	0	0					M	Mis	2,802
	x	1	0	0		x	x	L	10	MC		
	x	2	0	0		38	0.26	L	6	MC		
x	526	18	0	1	13					A	Mis	2,879
	x	6	0	0		x	x	S	15	AL		
	x	11	0	0		x	x	S	9	AL		
	66	1	0	1		x	x	L	10	AC		
419	1,821	53	0	1	43					A	Mis	3,267
	x	25	0	0		37	x	S	20	AL		
	x	2	0	0		x	x	L	8	AC		
	x	1	0	0		x	x	L	10	AC		
	x	23	0	1		36	x	L	7	AC		
		2	0	0								
	57	3	0	1	2	x	x	L	10	X	Mis	3,220
	5	3	2	0	2	39	0.26	L	6	A	Mis	2,720
173	1,266	77	28	1	70					A	Mis	3,082
	x	1	0	1		x	x	S	7	AL		
	x	50	8	0		38	0.22	S	10	A		
	x	2	2	0		x	x	L	9	A		
	x	29	26	0		x	x	S	9	AL		
	x	1	0	0		x	x	LS	5	AC		
	x	1	0	0		x	x	L	7	AC		
		1	0	0								
x	819	32	0	4	23					A	Mis	3,076
	x	27	0	4		36	x	S	8	A		
	x	5	0	0		36	x	L	6	AC		
	3	1	0	0	0	37	x	L	10	AC	Mis	3,000
313	1,787	30	0	1	24					A	Dev	4,800
	x	14	0	1		36	x	S	26	A		
	x	2	0	0		38	x	S	9	A		
	x	0	0	0		38	x	L	4	A		
		14	0	0								
	119	14	0	0	9	x	x	S	8	AL	Mis	1,358
	2,933	102	42	0	102	x	x	DS	19	MU	Sil	1,971

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
821	King; Jefferson; 3–4S; 3E			1942	1,130		106
822		Aux Vases, Mis	2,725		1,050		x
823		Ohara, Mis	2,765		160		x
824		Rosiclare, Mis	2,815		140		x
825		McClosky, Mis	2,840		120		x
826		2 or more pays					
827	Kinmundy; Marion; 4N; 3E			1950	40		2
828		Bethel, Mis	1,915		20		2
829		Salem, Mis	2,430		20		0
830	Kinmundy N; Marion; 4N; 3E	Bethel, Mis	2,040	1953	10		abd 1954
831	LaClede; Fayette; 5N; 4E	Bethel, Mis	2,335	1943	30		1
832	Lakewood; Shelby; 10N; 2–3E			1941	130		6
833		Bethel, Mis	1,690		80		x
834		Aux Vases, Mis	1,720		50		x
835	Lancaster; Lawrence, Wabash; 1–2N; 13W			1940	1,410	x	35
836		Paint Creek, Mis	2,530		10		x
837		Bethel, Mis	2,540		890		x
838		Ohara, Mis	2,670		40		x
839		McClosky, Mis	2,690		500		x
840		2 or more pays					
841	Lancaster Central; Wabash; 1N; 13W			1946	300		3
842		Ohara, Mis	2,750		100		x
843		Rosiclare, Mis	2,810		260		x
844		McClosky, Mis*	2,815		40		x
845		2 or more pays					
846	Lancaster E; Wabash; 2N; 13W			1944	50		2
847		Biehl, Pen	1,745		30		2
848		Rosiclare, Mis	2,660		20		0
849	Lancaster S; Wabash; 1N; 13W			1946	110	9	20
850		Bethel, Mis	2,520		70	W	20
851		Ohara, Mis	2,670		20		0
852		McClosky, Mis	2,720		20		0
853	Langewisch-Kuester; Marion; 1N; 1E			1910	110		x
854		Unnamed, Pen	795	1951	20		x
855		Cypress, Mis	1,600	1910	90		x
856	Lawrence; Crawford, Lawrence; 2–5N; 11–13W			1906	39,580	3,815	x
						see Lawrence Co. Div.	
857		Trivoli, Pen	290		x		x
858		Cuba, Pen	450		x		x
859		Bridgeport, Pen	800		x	W	x
860		Pennsylvanian, Pen	950		x		x
861		Buchanan, Pen	1,250		x		x
862		Tar Springs, Mis	1,410		x		x
863		Hardinsburg, Mis	1,570		x		x
864		Jackson ("Gas"), Mis	1,370		x	W	x
865		Cypress (Kirkwood), Mis	1,400		x	W	x
866		Paint Creek, Mis	1,600		x	W	x
867		Bethel (Tracey), Mis	1,650		x	W	x
868		Renault, Mis	1,695		x	W	x
869		Aux Vases, Mis	1,775		x		x
870		Ohara, Mis	1,750		x		x
871		Rosiclare, Mis	1,860		x		x
872		McClosky, Mis	1,860		x	W	x
873		St. Louis, Mis	1,660		x		x
874		Salem, Mis	1,955		x		x
875		2 or more pays					
876	Lawrence Co. Div.;** Lawrence				40,280	3,815	5,530
877	Lawrence W; Lawrence; 3N; 13W			1952	270		15
878		Paint Creek, Mis*	2,040		10		x
879		Bethel, Mis	2,050		240		x
880		Aux Vases, Mis	2,110		10		0
881		McClosky, Mis	2,225		40		x
882		2 or more pays					
883	Lexington; Wabash; 1S; 14W			1947	200		4
884		Cypress, Mis	2,585		10		2
885		McClosky, Mis	2,970		200		2
886	Lexington N; Wabash; 1S; 14W	Ste. Genevieve, Mis	2,915	1951	40		0
							abd 1958
887	Lillyville; Cumberland, Effingham; 8–9N; 6–7E	McClosky, Mis	2,425	1946	160	3	11
888	Litchfield; Montgomery; 8–9N; 5W	Unnamed, Pen	660	1889	100		x
							abd 1904;
889	Livingston; Madison; 6N; 6W	Pennsylvanian, Pen	535	1948	390	x	39
890	Livingston S;† Madison; 5–6N; 6W	Pennsylvanian, Pen	530	1950	330		12

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).
**Total of lines 856 and 1341.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	2,655	102	3	4	75					A	Dev	4,759
	x	84	3	4		39	0.17	S	15	AL		
	x	1	0	0		x	x	L	10	AC		
	x	4	0	0		40	0.16	LS	10	AC		
	x	2	0	0		x	x	L	5	AC		
		9	0	0								
	23	3	0	0	2					A	Mis	2,479
	23	2	0	0		34	x	S	3	A		
	0	1	0	0		x	x	L	7	A		
	.5	1	0	0	0	x	x	S	6	X	Mis	2,301
	19	4	0	0	2	36	0.18	S	15	A	Mis	2,608
	248	12	0	0	11					A	Sil	3,127
	x	7	0	0		38	x	S	7	AL		
	x	5	0	0		32	0.23	S	8	AL		
x	2,768	104	1	0	62					A	Mis	2,908
	x	1	0	0		x	x	S	5	AL		
	x	71	1	0		39	x	S	14	AL		
	x	1	0	0		x	x	L	10	AC		
	x	30	0	0		40	0.28	L	7	AC		
		1	0	0								
	368	14	0	0	5					M	Mis	2,888
	x	2	0	0		x	x	L	7	MC		
	x	8	0	0		x	x	L	7	MC		
	x	0	0	0		x	x	L	8	MC		
		4	0	0								
	40	4	0	0	3					M	Mis	2,750
	21	3	0	0		x	x	S	10	ML		
	20	1	0	0		x	x	L	6	MC		
35	277	13	0	0	11					M	Mis	2,817
	261	11	0	0		32	x	S	6	ML		
	.5	1	0	0		x	x	L	6	MC		
	16	1	0	0		x	x	L	12	MC		
	x	11	0	0	x					N	Dev	3,447
	x	2	0	0		x	x	S	x	N		
	x	9	0	0		x	x	S	x	N		
15,053	x	5,065	47	98	2,105					A	St. P	5,190
for Production												
	x	11	0	0		x	x	S	x	A		
	x	1	0	0		x	x	S	x	A		
	x	1,263	2	x		33	x	S	40	A		
	x	14	0	x		x	x	S	15	A		
	x	513	2	x		33	x	S	15	A		
	x	2	0	x		x	x	S	10	A		
	x	1	0	x		33	x	S	10	A		
	x	246	0	x		33	x	S	15	A		
	x	3,192	34	x		33	x	S	30	A		
	x	7	1	x		x	x	S	8	A		
	x	901	19	x		38	x	S	20	A		
	x	3	0	x		x	x	S	7	A		
	x	17	1	x		x	x	S	8	A		
	x	8	0	x		x	x	L	8	A		
	x	23	2	x		33	x	LS	4	A		
	x	1,021	1	x		33	x	L	10	A		
	x	3	0	x		x	x	L	10	A		
	x	1	0	x		x	x	L	2	A		
		69	15	x								
15,053	272,392	5,147	47	99	2,148						St. P	5,190
	391	25	0	1	22					X	Mis	2,324
	x	0	0	0		x	x	S	4	X		
	x	21	0	0		x	x	S	15	X		
	3	1	0	1		x	x	S	8	X		
	x	1	0	0		x	x	L	11	X		
		2	0	0								
	379	11	0	0	3					A	Mis	3,031
	12	1	0	0		x	x	S	10	AL		
	366	10	0	0		x	x	L	8	AC		
	6	2	0	1	0	x	x	L	4	MC	Mis	3,045
3	351	8	0	0	8	36	x	L	10	A	Dev	4,000
	24	18	0	0	0	23	0.24	S	x	D	St. P	3,000
rev 1942												
x	451	50	0	0	37	36	x	S	15	ML	Ord	2,378
	159	37	0	1	26	x	x	S	7	ML	Mis	845

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
891	Locust Grove; Wayne; 1N; 9E			1951	120		19
892		Aux Vases, Mis	3,215		80		x
893		Ohara, Mis	3,240		40		x
894		McClosky, Mis*	3,280		20		x
895		2 or more pays					
896	Locust Grove S; Wayne; 1S; 9E			1953	120		32
897		Ohara, Mis	3,248	1958	40		x
898		Rosiclare, Mis	3,300	1953	40		x
899		McClosky, Mis	3,286	1958	60		x
900		2 or more pays					
901	Long Branch; Hamilton, Saline; 7S; 6E			1950	120		25
902		Palestine, Mis	2,070		20		6
903		Cypress, Mis	2,745		30		x
904		Aux Vases, Mis	3,095		60		x
905		McClosky, Mis	3,220		40		x
906		2 or more pays					
907	Long Branch S; Saline; 8S; 6E	Cypress, Mis	2,660	1955	10		.5
908	Louden;† Effingham, Fayette; 6–9N; 2–4E			1937	23,240	12,219	13,694
909		Cypress, Mis	1,500		23,060	W	x
910		Paint Creek, Mis	1,540		4,030	W	x
911		Bethel, Mis	1,550		9,020	W	x
912		Aux Vases, Mis	1,600		60		x
913		McClosky, Mis	1,785		20		x
914		Carper, Mis	2,830		30		x
915		Geneva, Dev	3,000		2,800	P	x
916		Trenton, Ord*	3,905		20		x
917		2 or more pays					
918	Louisville N; Clay; 4N; 6E	Aux Vases, Mis	2,755	1953	20		abd 1956
919	Lynchburg; Jefferson; 3S; 4E	McClosky, Mis	3,045	1951	40		12
920	McKinley; Washington; 3S; 4W			1940	280		89
921		Cypress, Mis	1,060	1958	10		x
922		Bethel, Mis	1,000		130		x
923		Silurian, Sil	2,240		200		x
924	Main C;† Crawford, Jasper, Lawrence;			1906	85,300	2,067	2,999
925	5–8N; 10–14W	Cuba, Pen	510		x		x
926		Unnamed, Pen	750		30		x
927		Robinson, Pen	950		x	W	x
928		Pennsylvanian, Pen	1,250		x		x
929		Cypress, Mis	1,480		x		x
930		Paint Creek, Mis	1,280		x		x
931		Bethel, Mis	1,400		x		x
932		Aux Vases, Mis	1,430		x		x
933		Rosiclare, Mis	1,515		x		x
934		McClosky (Oblong), Mis	1,400		x		x
935		Salem, Mis	1 815		x		x
936		Devonian, Dev	2,795		x		x
937		2 or more pays					
938	Maple Grove C; Edwards, Wayne;			1943	2,250	29	102
939	1–2N; 9–10E	Aux Vases, Mis	3,145		290	W	x
940		Ohara, Mis	3,230		80		x
941		Rosiclare, Mis*	3,250		20		x
942		McClosky, Mis	3,260		2,040	W	x
943		2 or more pays					
944	Maple Grove S; Edwards; 1N; 10E	McClosky, Mis	3,250	1945	20		abd 1950
945	Marcoe; Jefferson; 3S; 2E	McClosky, Mis	2,745	1938	40		abd 1941
946	Marine; Madison; 4N; 6W	Devonian & Silurian	1,700	1943	3,100		237
947	Marion; Williamson; 9S; 3E	Aux Vases, Mis	2,385	1950	10		abd 1951
948	Markham City; Jefferson; 2–3S; 4E	Ste. Genevieve, Mis	3,070	1942	760	x	28
949	Markham City N; Jefferson, Wayne;			1943	500		25
950	2S; 4–5E	Aux Vases, Mis	2,950		80		x
951		McClosky, Mis	3,075		500		x
952	Markham City W; Jefferson; 2–3S; 4E			1945	620	218	235
953		Aux Vases, Mis	2,905		320	W	x
954		McClosky, Mis	3,035		380	W	x
955		2 or more pays					
956	Martinsville; Clark; 9–10N; 13–14W			1907	1,700	x	x
						see Clark Co. Div.	
957		Shallow, Pen	255		50	W	x
958		Casey, Pen	500		380	W	x
959		Martinsville, Mis	480		800		x
960		Carper, Mis	1,340		1,020		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	151	9	0	0	8					X	Mis	3,420
	x	7	0	0		x	x	S	10	X		
	x	1	0	0		x	x	L	4	X		
	x	0	0	0		x	x	L	6	X		
		1	0	0								
	44	6	5	0	6	x	x	L	10	X	Mis	3,394
	x	2	2	0		x	x	L	6	X		
	x	2	1	0	2	x	x	L	10	X		
	x	3	3	0		x	x	L	4	X		
		1	1	0								
	216	12	0	1	8					A	Mis	3,389
	88	2	0	0		x	x	S	8	AL		
	x	2	0	0		x	x	S	13	AL		
	x	5	1	1		x	x	S	9	AL		
	x	2	0	0		x	x	L	5	AC		
		1	0	0								
	9	1	0	0	1	x	x	S	8	X	Mis	3,210
49,865	224,074	2,192	6	3	1,973					A	St. P	4,680
	x	1,211	6	3		36	0.25	S	30	A		
	x	178	3	0		38	0.24	S	15	A		
	x	430	2	0		39	0.20	S	10	A		
	x	1	0	0		37	0.17	S	6	AL		
	x	1	0	0		x	x	L	4	AC		
	x	1	0	0		x	x	S	9	AL		
	x	85	0	0		29	0.48	D	15	A		
	x	0	0	0		x	x	L	12	A		
		293	3	0								
	2	2	0	0	0	x	x	S	10	ML	Mis	2,977
	234	2	0	0	2	x	x	L	8	AC	Mis	3,169
	598	28	6	2	16					D	Ord	3,983
	x	1	1	0		x	x	S	19	D		
	x	15	5	2		44	0.18	S	5	D		
	x	12	0	0		43	x	L	40	R		
10,973	178,576	9,799	65	110	4,344					ML	St P	4,654
	x	74	0	3		32	x	S	x	ML		
	x	3	1	0		x	x	S	5	ML		
	x	9,376	50	x		x	x	S	25	ML		
	x	28	1	x		x	x	S	x	ML		
	x	36	2	x		x	x	S	15	ML		
	x	0	0	0		x	x	S	30	ML		
	x	98	3	x		x	x	S	18	ML		
	x	52	9	x		x	x	S	15	ML		
	x	1	0	0		x	x	S	6	MC		
	x	112	0	x		x	x	L	x	MC		
	x	12	0	0		x	x	L	5	MC		
	x	2	0	0		x	x	L	11	MC		
		8	1	x								
132	3,839	103	0	4	68					A	Mis	3,385
	x	20	0	0		x	x	S	15	A		
	x	2	0	0		x	x	L	3	AC		
	x	0	0	0		x	x	L	1	AC		
	x	76	0	4		37	x	L	6	A		
		5	0	0								
	9	1	0	0	0	x	x	L	10	MC	Mis	3,358
	13	2	0	0	0	23	0.54	L	15	MC	Mis	3,066
	10,038	146	0	0	135	34	0.28	L	20	R	Ord	2,619
	.5	1	0	0	0	40	x	S	5	X	Mis	2,560
x	1,296	19	0	2	9	38	0.08	L	10	A	Mis	3,215
	1,026	18	0	0	9					A	Mis	3,169
	x	4	0	0		x	x	S	6	AL		
	x	14	0	0		38	0.24	L	8	AC		
291	1,886	36	1	0	31					A	Mis	3,182
	x	16	0	0		38	x	S	15	AL		
	x	17	1	0		38	x	L	7	AC		
		3	0	0								
x for Production	x	275	2	6	133					D	St. P	3,411
	x	9	0	1		x	x	S	x	D		
	x	83	0	1		x	x	S	x	D		
	x	24	0	0		x	x	L	x	D		
	x	66	2	4		34	x	S	40	D		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
961		Devonian, Dev	1,550		680		x
962		Trenton, Ord	2,700		20		x
963	Mason N; Effingham; 6N; 5E			1951	120	x	12
964		Bethel, Mis	2,290		100	W	x
965		Aux Vases, Mis*	2,355		10		x
966		Rosiclare, Mis	2,390		60		x
967		McClosky, Mis*	2,475		20		x
968		2 or more pays					
969	Massilon; Edwards, Wayne; 1S; 9–10E	Ohara, Mis	3,255	1946	120		abd 1953
970	Massilon S; Edwards; 1S; 10E	Ohara, Mis	3,315	1947	20		abd 1947
971	Mattoon; Coles; 11–12N; 7–8E			1939	5,340	81	362
972		Cypress, Mis	1,750		2,040	W	x
973		Aux Vases, Mis	1,900		200		x
974		Rosiclare, Mis	1,950		3,920	W	x
975		McClosky, Mis	2,010		20		x
976		Carper, Mis	2,950		10		x
977		2 or more pays					
978	Maunie E; White; 6S; 11E	Aux Vases, Mis	2,870	1951	60		3
979	Maunie N C; White; 5–6S; 10–11E; 14W			1941	1,870	x	abd 1952; 231
980		Pennsylvanian, Pen	1,320		10		x
981		Waltersburg, Mis	2,305		100		x
982		Tar Springs, Mis	2,350		110		x
983		Hardinsburg, Mis*	2,565		10		x
984		Paint Creek, Mis	2,830		40		x
985		Bethel, Mis	2,820		400		x
986		Renault, Mis	2,935		10		x
987		Aux Vases, Mis	2,930		890	W	x
988		Ohara, Mis	2,995		160		x
989		Rosiclare, Mis	3,025		340		x
990		McClosky, Mis	3,035		400	W	x
991		2 or more pays					
992	Maunie S C; White; 6S; 10–11E			1941	1,500	89	151
993		Bridgeport, Pen	1,400		70		x
994		Degonia, Mis	1,900		90		x
995		Palestine, Mis	2,010		480	W	x
996		Waltersburg, Mis	2,210		20		x
997		Tar Springs, Mis	2,270		520	P	x
998		Cypress, Mis	2,590		270	W	x
999		Bethel, Mis*	2,735		10		x
1000		Aux Vases, Mis	2,845		120		x
1001		Rosiclare, Mis*	2,900		20		x
1002		McClosky, Mis	2,920		40		x
1003		2 or more pays					
1004	Mayberry; Wayne; 2–3S; 6E	McClosky, Mis	3,350	1941	240		4
1005	Mayberry N; Wayne; 2S; 6E	McClosky, Mis	3,330	1948	20		abd 1950
1006	Melrose; Clark; 9N; 13W	Isabel, Pen	840	1953	100		x
1007	Melrose S; Clark; 9N; 13W	Isabel, Pen	865	1953	10		0
1008	Miletus; Marion; 4N; 4E			1947	220		14
1009		Bethel, Mis	2,140		100		x
1010		Aux Vases, Mis	2,200		100		x
1011		McClosky, Mis	2,350		60		x
1012		2 or more pays					
1013	Mill Shoals; Hamilton, Wayne, White;			1939	2,770	23	267
1014	2–4S; 7–8E	Aux Vases, Mis	3,245		2,530	W	x
1015		Ohara, Mis	3,320		140		x
1016		Rosiclare, Mis	3,345		200		x
1017		McClosky, Mis	3,375		720		x
1018		2 or more pays					
1019	Mills Prairie; Edwards; 1N; 14W	Ohara, Mis	2,925	1948	20		abd 1952
1020	Mills Prairie N; Edwards; 1N; 14W	Ohara, Mis	2,925	1953	40		abd 1956
1021	Mitchellsville; Saline; 10S; 6E			1955	20		2
1022		Degonia, Mis	1,330		10		x
1023		Waltersburg, Mis	1,505		10		2
1024	Mt. Auburn C; Christian; 15N; 1–2W	Silurian, Sil	1,890	1943	3,620		668
1025	Mt. Carmel;‡ Wabash; 1N, 1S; 12W			1940	4,520	204	444
1026		Bridgeport, Pen	1,370		60		x
1027		Biehl, Pen	1,470		700	W	x
1028		Jordan, Pen	1,520		50		x
1029		Palestine, Mis	1,580		40		x
1030		Waltersburg, Mis*	1,690		10		x

*Multiple pay or workover wells only.
‡Illinois portion only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958			1958									
Secondary recovery	Total	Completed to end of 1958	Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	43	0	0		x	x	L	x	D		
	x	2	0	0		40	x	L	x	D		
x	203	10	0	0	0	10				A	Mis	2,553
	x	7	0	0		x	x	S	13	AL		
	x	0	0	0		x	x	S	5	AL		
	x	2	0	0		x	x	L	18	AC		
	x	0	0	0		x	x	L	5	AC		
		1	0	0								
	91	3	0	0	0	37	x	L	6	MC	Mis	3,472
	.5	1	0	0	0	x	x	L	9	MC	Mis	3,391
455	13,206	447	1	2	382					A	St. P	4,915
	x	97	1	0		38	0.16	S	13	A		
	x	5	0	0		38	x	S	15	AL		
	x	235	1	1		38	0.21	S	12	A		
	x	1	0	0		38	x	L	5	AC		
	x	1	0	0		x	x	S	10	A		
		108	1	1								
	37	5	0	1	2	x	x	S	20	AF	Mis	3,032
rev 1955												
x	2,872	165	1	1	141					A	Mis	3,260
	x	1	0	0		x	x	S	20	AL		
	x	9	0	0		x	x	S	12	AL		
	x	8	0	0		x	x	S	10	AL		
	x	0	0	0		x	x	S	10	A		
	x	2	0	0		x	x	S	13	AL		
	x	24	0	0		37	x	S	13	AL		
	x	1	0	0		x	x	L	2	AC		
	x	71	1	0		x	x	S	13	AL		
	x	5	0	0		x	x	L	4	AC		
	x	9	0	0		x	x	L	6	AC		
	x	13	1	1		x	x	L	10	AC		
		20	0	0								
1,589	5,872	141	0	3	90					A	Mis	3,160
	x	7	0	0		37	x	S	7	AL		
	x	6	0	0		x	x	S	10	AL		
	x	39	0	1		38	x	S	17	AL		
	x	2	0	0		x	x	S	19	AL		
	x	43	0	1		38	x	S	16	AF		
	x	23	0	0		39	x	S	10	AL		
	x	0	0	0		x	x	S	x	AL		
	x	10	0	0		x	x	S	12	AL		
	x	0	0	0		x	x	L	8	AC		
	x	1	0	0		x	x	L	6	AC		
		10	0	1								
	323	7	0	0	2	39	0.16	L	8	AC	Dev	5,377
	1	1	0	0	0	x	x	L	2	X	Mis	3,463
	x	10	0	0	9	x	x	S	10	X	Pen	878
	0	1	0	0	0	x	x	S	7	X	Pen	880
	266	16	1	0	12					A	Dev	3,950
	x	7	1	0		36	x	S	7	A		
	x	5	0			36	x	S	7	A		
	x	1	0	0		36	x	L	5	A		
		3	0	0								
313	8,236	231	5	1	170					A	Mis	4,311
	x	179	3	1		40	0.14	S	11	A		
	x	3	1	0		x	x	OL	11	AC		
	x	7	0	0		x	x	LS	8	AC		
	x	29	1	0		38	x	OL	5	AC		
		13	0	0								
	2	1	0	0	0	x	x	L	5	MC	Mis	3,010
	5	2	0	0	0	x	x	L	5	MC	Mis	3,003
	10	2	0	0	2					X	Mis	2,452
	x	1	0	0		x	x	S	6	X		
	10	1	0	0		x	x	S	9	X		
	1,707	166	54	4	156	37	0.28	L	15	MU	Tren	2,560
1,018	11,873	446	3	2	300					A	Dev	4,237
	x	5	0	0		34	x	S	20	AL		
	x	46	0	0		37	0.28	S	20	AL		
	x	2	0	0		x	x	S	15	AL		
	x	3	0	0		x	x	S	10	AL		
	x	0	0	0		36	x	S	10	AL		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
1031		Tar Springs, Mis	1,790		290	W	x
1032		Jackson, Mis*	2,020		10		x
1033		Cypress, Mis	2,025		3,380	W, P	x
1034		Paint Creek, Mis	2,095		40		x
1035		Bethel, Mis	2,110		60		x
1036		Ohara, Mis	2,320		260		x
1037		Rosiclare, Mis	2,350		240		x
1038		McClosky, Mis	2,360		1,300	W	x
1039		2 or more pays					
1040	Mt. Erie N; Wayne; 1N; 9E			1944	180		4
1041		Aux Vases, Mis	3,110		50		x
1042		Ohara, Mis	3,170		40		x
1043		McClosky, Mis	3,240		100		x
1044	Mt. Olive;† Montgomery; 8N; 5W	Pottsville, Pen	605	1942	50		x
1045	Mt. Vernon; Jefferson; 3S; 3E			1943	230		13
1046		Aux Vases, Mis	2,665		50		2
1047		Ohara, Mis*	2,750		20		0
1048		McClosky, Mis	2,800		180		11
1049		2 or more pays					
1050	Mt. Vernon N; Jefferson; 2S; 3E	McClosky, Mis	2,675	1956	40		7
1051	Murdock; Douglas; 16N; 10E	Pennsylvanian, Pen	370	1955	10		abd 1957
1052	Nason; Jefferson; 3S; 2E	Rosiclare, Mis	2,790	1943	20		1
1053	New Baden E; Clinton; 1N; 5W	Silurian, Sil	1,925	1958	20		.5
1054	New Bellair; Crawford; 8N; 13W			1942	40		x
							abd 1948; rev 1952;
1055		Isabel, Pen	650		10		0
1056		Pennsylvanian, Pen	1,165		20		0
1057		Aux Vases, Mis	1,280		10		x
1058	New City; Sangamon; 14N; 4W	Silurian, Sil	1,730	1954	60		2
1059	New Douglas S; Bond; 6N; 5W	Pennsylvanian, Pen	640	1957	20		2
1060	New Harmony C;‡ Edwards; Wabash,			1939	23,950	2,515	4,413
1061	White; 1N, 1–5S; 13 14W	Jamestown, Pen	720		x		x
1062		Mansfield, Pen*	x		x		x
1063		Bridgeport, Pen	1,340		x		x
1064		Biehl, Pen	1,850		x	W	x
1065		Jordan, Pen*	1,760		x		x
1066		Degonia, Mis	1,925		x		x
1067		Clore, Mis	1,980		x		x
1068		Palestine, Mis	2,000		220		x
1069		Waltersburg, Mis	2,155		860	W	x
1070		Tar Springs, Mis	2,215		1,350	W	x
1071		Hardinsburg, Mis*	2,290	1958	10		x
1072		Cypress, Mis	2,570		8,050	W, P	x
1073		Paint Creek, Mis	2,660		x	W	x
1074		Bethel, Mis	2,700		x	W	x
1075		Aux Vases, Mis	2,800		5,190	W	x
1076		Ohara, Mis	2,900		x		x
1077		Rosiclare, Mis	2,910		x		x
1078		McClosky, Mis	2,925		x	W	x
1079		Salem, Mis	3,755		60		x
1080		2 or more pays					
1081	New Harmony S (Ill.); White; 5S; 14W			1941	90		1
1082		Waltersburg, Mis	2,250		20		x
1083		Tar Springs, Mis	2,350		10		x
1084		Cypress, Mis	2,670		10		0
1085		Bethel, Mis	2,815		20		0
1086		Aux Vases, Mis	3,005		10		0
1087		McClosky, Mis	3,010		40		x
1088		2 or more pays					
1089	New Harmony S (Ind.);‡ White; 5S; 14W			1946	60		0
1090		Degonia, Mis*	1,850		20		x
1091		Palestine, Mis	1,955		30		x
1092		Waltersburg, Mis	2,120		30		x
1093		2 or more pays					
1094	New Haven C;‡ White; 7S; 10–11E			1941	360	85	104
1095		Tar Springs, Mis	2,105		130	W	x
1096		Hardinsburg, Mis	2,245		10		x
1097		Cypress, Mis	2,445		200	W	x
1098		Aux Vases, Mis	2,720		70		x
1099		McClosky, Mis	2,820		60		x
1100		2 or more pays					

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).
‡Illinois portion only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958			Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
Secondary recovery	Total		Completed	Abandoned	Producing end of year							
	x	17	0	0		36	x	S	13	AL		
	x	0	0	0		x	x	S	25	AL		
	x	260	2	0		36	0.17	S	15	AL		
	x	3	1	0		x	x	S	7	AL		
	x	3	0	0		36	x	S	16	AL		
	x	9	0	1		36	x	OL	5	AC		
	x	6	0	0		37	0.26	S	5	AL		
	x	45	0	1		37	0.42	OL	6	AC		
		47	0	0								
	375	11	0	0	5					M	Mis	3,354
	x	4	0	0		x	x	S	8	ML		
	x	2	0	0		x	x	L	6	MC		
	x	5	0	0		37	x	L	5	MC		
	x	5	0	0	0	33	0.16	S	6	A	Dev	1,819
	343	10	0	0	4					A	Mis	3,009
	x	5	0	0		x	x	S	8	A		
	x	0	0	0		x	x	L	6	AC		
	x	4	0	0		39	0.18	L	7	AC		
		1	0	0								
	25	2	0	0	2	x	x	L	6	X	Mis	2,726
	x	1	0	0	0	x	x	S	16	X	Pen	395
	28	1	0	0	1	x	x	S	12	ML	Mis	3,925
	.5	1	1	0	1	x	x	L	x	R	Sil	2,164
	10	4	0	0	1					M	Dev	2,760
abd 1954; rev 1956												
	0	1	0	0		x	x	S	3	ML		
	10	2	0	0		29	0.30	S	10	ML		
	x	1	0	0		x	x	S	20	M		
	41	3	0	0	2	x	x	L	11	MU	Sil	1,855
	2	2	1	1	1	x	x	S	7	X	Pen	705
12,353	95,057	2,154	31	10	1,643					A	Shak	7,682
	x	2	0	0		32	x	S	13	AL		
	x	0	0	0		x	x	S	x	AL		
	x	3	0	1		x	x	S	7	AL		
	x	78	1	0		37	x	S	20	AL		
	x	0	0	0		x	x	S	x	AL		
	x	4	0	0		38	x	S	10	AL		
	x	3	0	0		x	x	S	10	AL		
	x	16	0	0		x	x	S	10	AL		
	x	33	0	0		34	0.40	S	20	AL		
	x	105	5	2		35	0.19	S	26	ALf		
	x	1	1	0		x	x	L	10	ALf		
	x	563	5	1		35	x	S	20	ALf		
	x	20	1	0		x	x	S	20	ALf		
	x	501	16	4		34	0.24	S	27	ALf		
	x	302	9	0		34	0.19	S	15	ALf		
	x	24	0	1		x	x	OL	6	AC		
	x	16	0	0		x	x	LS	10	AC		
	x	168	1	0		35	0.33	OL	8	AC		
	x	2	0	0		x	x	L	6	AC		
		356	7	1								
	80	8	0	0	1					A	Mis	3,207
	x	2	0	0		x	x	S	18	AF		
	x	1	0	0		x	x	S	16	AF		
	0	1	0	0		x	x	S	8	Af		
	x	1	0	0		x	x	S	10	Af		
	2	1	0	0		x	x	S	7	AF		
	x	1	0	0		x	x	L	5	AF		
		1	0	0								
	446	6	0	0	0					T	Mis	3,068
	x	0	0	0		x	x	S	8	TF		
	x	1	0	0		x	x	S	10	TF		
	x	3	0	0		x	x	S	30	TF		
		2	0	0								
361	1,244	31	0	0	29					A	Mis	2,980
	x	8	0	0		36	0.27	S	12	Af		
	x	1	0	0		36	x	S	8	Af		
	x	11	0	0		36	x	S	12	Af		
	x	4	0	0		36	x	S	15	Af		
	x	1	0	0		36	x	OL	6	AC		
		6	0	0								

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
1101	New Hebron E; Crawford; 6N; 12W	Aux Vases, Mis	1,555	1954	30		x
1102	New Memphis; Clinton; 1N, 1S; 5W	Silurian, Sil	1,980	1952	760		143
1103	New Memphis E; Washington; 1S; 4W	Devonian, Dev	2,170	1957	20		2
1104	New Memphis N; Clinton; 1N; 5W	Devonian-Silurian	2,050	1954	60		4
1105	New Memphis S; Clinton, Washington; 1S; 5W	Silurian, Sil	2,000	1952	40		0
1106	Newton; Jasper; 6N; 9E	St. Genevieve, Mis	2,950	1944	80	abd 1952; rev 1956	2
1107	Newton N; Jasper; 7N; 10E	McClosky, Mis	2,855	1945	20		abd 1948
1108	Newton W; Jasper; 6–7N; 9E	McClosky, Mis	3,000	1947	60		abd 1953
1109	Noble W; Clay; 3N; 8E	McClosky, Mis	3,035	1951	20		.5
1110	Oakdale; Jefferson; 2S; 4E			1956	200		53
1111		Aux Vases, Mis	2,860		160		x
1112		McClosky, Mis	2,985		60		x
1113		2 or more pays					
1114	Oakley; Macon; 16N; 3E	Cedar Valley, Dev	2,285	1954	140		3
1115	Oak Point; Clark, Jasper; 8–9N; 14W			1952	710		38
1116		Isabel, Pen	560		10		0
1117		Aux Vases, Mis	1,185		680		38
1118		Carper, Mis	2,220		20		0
1119	Oak Point W; Clark, Cumberland; 9N; 11E, 14W	Aux Vases, Mis	1,190	1955	90		2
1120	Odin; Marion; 2N; 1–2E			1945	290	38	48
1121		Cypress, Mis	1,750		290	W	38
1122		McClosky, Mis	2,085		20		10
1123	Okawville; Washington; 1S; 4W	Silurian, Sil	2,325	1951	80		4
1124	Okawville N; Washington; 1S; 4W	Silurian, Sil	2,235	1955	40		5
1125	Old Ripley; Bond; 5N; 4W	Pennsylvanian, Pen	600	1954	760	.2	38
1126	Olney C; Jasper, Richland; 4–5N; 10E			1938	4,130	76	199
1127		Ohara, Mis	3,005		x	W	x
1128		Rosiclare, Mis	3,050		x		x
1129		McClosky, Mis	3,100		x	W	x
1130		2 or more pays					
1131	Olney S; Richland; 3N; 10E			1937	980		42
1132		Rosiclare, Mis	3,100		720		x
1133		McClosky, Mis	3,115		640		x
1134		2 or more pays					
1135	Omaha;† Gallatin; 7–8S; 8E			1940	1,070		336
1136		Jake Creek, Pen	385		210		x
1137		Pennsylvanian, Pen	580		40		x
1138		Biehl, Pen	1,335		70		x
1139		Palestine, Mis	1,700		360	P	x
1140		Tar Springs, Mis	1,900		90		x
1141		Bethel, Mis*	2,570		20		x
1142		Aux Vases, Mis	2,730		400		x
1143		Ohara, Mis*	2,734	1958	40		x
1144		Rosiclare, Mis	2,722	1958	20		x
1145		2 or more pays					
1146	Omaha E; Gallatin; 8S; 8E			1946	120		12
1147		Cypress, Mis	2,530		30		5
1148		Aux Vases, Mis	2,790		10		0
1149		Ohara, Mis	2,855		40		0
1150		McClosky, Mis	2,884	1958	40		x
1151	Omaha S; Gallatin, Saline; 8S; 7–8E			1951	90		1
1152		Cypress, Mis	2,535		60		1
1153		Aux Vases, Mis	2,870		10		0
1154		Rosiclare, Mis	2,865		20		0
1155	Omaha W; Saline; 7–8S; 7E			1950	70		8
1156		Cypress, Mis	2,600		50		x
1157		Aux Vases, Mis*	2,800		10		x
1158		McClosky, Mis	2,910		20		0
1159		2 or more pays					
1160	Omega; Marion; 3N; 4E	McClosky, Mis	2,490	1946	40		abd 1949
1161	Orchardville; Wayne; 1N; 5E			1950	110		7
1162		Aux Vases, Mis	2,800		70		6
1163		Ohara, Mis	2,880		20		.5
1164		McClosky, Mis	2,905		40		.5
1165	Orchardville N; Wayne; 1N; 5E	Paint Creek, Mis	2,655	1956	10		2
1166	Oskaloosa; Clay; 3–4N; 5E			1950	380	103	153
1167		Bethel, Mis	2,595		360	W	x
1168		Aux Vases, Mis	2,643	1958	30		x
1169		McClosky, Mis	2,755		80		x
1170		2 or more pays					

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	.5	3	0	0	1	x	x	S	4	X	Mis	1,571
	1,299	36	0	0	36	x	x	L	x	R	Sil	2,240
	2	1	0	0	1	x	x	L	12		Dev	2,280
	21	3	0	0	3	x	x	L	15	X	Ord	2,915
	1	2	0	0	1	27.4	x	L	25	X	Ord	2,914
	80	4	0	0	2	x	x	L	6	MC	Mis	3,040
	7	1	0	0	0	x	x	L	5	MC	Mis	2,889
	1	3	0	0	0	x	x	L	7	MC	Mis	3,102
	9	1	0	0	1	x	x	L	8	X	Mis	3,149
	237	11	0	0	11					X	Mis	3,767
	x	8	0	0		x	x	S	35	X		
	x	2	0	0		x	x	L	5	X		
		1	0	0								
	16	7	0	0	3	x	x	L	5	X	Dev	2,321
	273	53	3	0	48					M	Dev	2,691
	0	1	0	0		x	x	S	10	ML		
	273	51	3	0		x	x	S	17	X		
	x	1	0	0		x	x	L	x	ML		
	9	8	2	0	8	x	x	S	8	X	Mis	1,560
1,233	1,651	30	0	0	29					A	Dev	3,597
	1,640	29	0	0		x	x	S	13	AL		
	11	1	0	0		x	x	L	12	A		
	40	4	0	0	4	x	x	L	3	R	Sil	2,603
	16	2	0	0	2	40.5	x	L	x	X	Sil	2,498
x	181	67	6	0	66	x	x	S	17	A	Dev	2,221
317	6,227	157	2	3	94					A	Mis	3,289
	x	14	0	0		37	0.19	L	6	A		
	x	23	1	0		37	0.19	L	5	A		
	x	116	1	3		37	0.19	L	6	A		
		4	0	0								
	739	46	5	2	37					M	Dev	4,910
	x	16	1	0		x	x	L	4	MC		
	x	12	5	2		x	x	L	3	MC		
		17	1	0								
	3,047	97	42	1	86					D	Mis	2,941
	x	15	0	0		x	x	S	20	D		
	x	5	1	0		x	x	S	10	D		
	x	5	1	1		x	x	S	10	D		
	x	24	0	0		27	0.24	S	15	D		
	x	7	1	0		x	x	S	15	D		
	x	1	1	0		x	x	S	14	D		
	x	39	38	0		x	x	S	20	D		
	x	2	2	0		x	x	L	14	D		
	x	2	2	0		x	x	S	8	D		
		4	3	0								
	25	8	5	1	5					M	Mis	3,000
	8	3	2	0		x	x	S	6	M		
	0	1	0	0		x	x	S	x	M		
	11	2	1	1		37	x	L	8	MCf		
	x	2	2	0		x	x	L	10	MCf		
	22	7	0	0	2					N	Mis	3,035
	17	5	0	0		x	x	S	15	NL		
	0	1	0	0		x	x	S	11	N		
	5	1	0	0		x	x	L	1	NC		
	138	6	0	0	4					A	Mis	3,016
	x	4	0	0		x	x	S	14	AL		
	x	0	0	0		x	x	S	30	AL		
	1	1	0	0		x	x	L	8	AC		
		1	0	0								
	5	2	0	0	0	x	x	L	10	D	Mis	2,584
	103	9	1	0	8					A	Mis	3,000
	77	6	1	0		x	x	S	16	AL		
	4.5	1	0	0		x	x	L	3	AC		
	22.5	2	0	0		x	x	L	5	AC		
	7	1	0	0	1	x	x	S	6		Mis	3,020
849	1,758	37	0	0	34					A	Mis	2,961
	x	36	0	3	31	x	x	S	15	A		
	x	3	3	0		x	x	S	x	A		
	x	4	3	0		x	x	L	5	A		
		3	3	0								

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
1171	Oskaloosa E; Clay; 3N; 5–6E			1947	40		abd 1954
1172		Aux Vases, Mis	2,820		20		0
1173		McClosky, Mis	2,895		20		0
1174	Oskaloosa S; Clay; 3N; 5E	McClosky, Mis	2,770	1951	60		2
1175	Pana; Christian; 11–12N; 1E	Bethel, Mis	1,470	1951	60		6
1176	Panama;† Bond, Montgomery; 7N; 3–4W			1940	60		1
1177		Golconda, Mis	705		40		0
1178		Bethel, Mis	865		20		1
1179	Pankeyville; Saline; 9S; 6E	Cypress, Mis	2,250	1956	30		abd 1957
1180	Pankeyville E; Saline; 9S; 7E			1956	10		abd 1957
1181		Cypress, Mis*	2,250		10		0
1182		Bethel, Mis*	2,360		10		0
1183		2 or more pays					
1184	Parkersburg C; Edwards, Richland;			1941	6,320	49	176
1185	1–3N; 10–11E, 14W	Waltersburg, Mis	2,430		90		x
1186		Cypress, Mis	2,830		160		x
1187		Paint Creek, Mis	2,955		70		x
1188		Bethel, Mis	2,930		140		x
1189		Aux Vases, Mis	3,070		10		x
1190		Ohara, Mis	3,100		x		x
1191		Rosiclare, Mis	3,150		x		x
1192		McClosky, Mis	3,175		5,020	W	x
1193		2 or more pays					
1194	Parkersburg S; Edwards; 1N; 14W			1948	80		2
1195		Pennsylvanian, Pen	1,400		60		2
1196		Bethel, Mis	2,815		20		1
1197	Parkersburg W; Edwards, Richland,			1943	340		15
1198	2N; 10E	Ohara, Mis	3,220		40		0
1199		McClosky, Mis	3,260		300		15
1200	Passport; Clay; 4–5N; 8E			1945	1,060	5	43
1201		Rosiclare, Mis	3,005		40		0
1202		McClosky, Mis	3,020		1,060	W	43
1203		2 or more pays					
1204	Passport S; Richland; 4N; 8–9E			1948	120		11
1205		Cypress, Mis	2,665		70		8
1206		Rosiclare, Mis	3,025		20		0
1207		McClosky, Mis	3,030		20		3
1208	Passport W; Clay; 4N; 8E	Ste. Genevieve, Mis	3,030	1954	180		3
1209	Patoka; Marion, Clinton; 3–4N; 1E, 1W			1937	1,740	89	357
1210		Cypress, Mis*	1,280		60	W	x
1211		Bethel, Mis	1,410		950	W	x
1212		Rosiclare, Mis	1,550		500	W	x
1213		Geneva, Dev	2,835		20		x
1214		Trenton. Ord	3,950		740		x
1215		2 or more pays					
1216	Patoka E; Marion; 4N; 1E			1941	600		69
1217		Cypress, Mis	1,340		500		x
1218		Bethel, Mis	1,465		60		x
1219		McClosky, Mis	1,635		80		x
1220		Geneva, Dev	2,950		40		x
1221	Patoka S; Marion; 3N; 1E	Cypress, Mis	1,350	1953	390		75
1222	Patoka W; Fayette; 4N; 1W	Bethel, Mis	1,380	1950	180		14
1223	Phillipstown C; Edwards, White;			1939	6,130	119	691
1224	3–5S; 10–11E, 14W	Anvil Rock, Pen	795		10		x
1225		Clark-Bridgeport, Pen	1,350		x		x
1226		Pennsylvanian, Pen	1,450		x		x
1227		Buchanan, Pen	1,550		x		x
1228		Biehl, Pen	1,875		x	W	x
1229		Degonia, Mis	1,975		480	W	x
1230		Clore, Mis	2,010		120	W	x
1231		Palestine, Mis	2,050		60		x
1232		Waltersburg, Mis	2,280		60		x
1233		Tar Springs, Mis	2,295		940	W	x
1234		Cypress, Mis	2,720		470	W	x
1235		Paint Creek, Mis	2,780		50		x
1236		Bethel, Mis	2,810		950	W, P	x
1237		Aux Vases, Mis	2,880		710	W	x
1238		Ohara, Mis	3,010		500		x
1239		Rosiclare, Mis	2,960		470		x
1240		McClosky, Mis	3,000		1,070		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	35	3	0	0	0					A	Mis	3,050
	7	2	0	0		x	x	S	5	AL		
	28	1	0	0		x	x	L	4	AC		
	23	3	0	2	2	x	x	L	4	AC	Mis	2,883
	60	5	1	0	5	x	x	S	8	X	Dev	2,847
	17	6	2	1	4					A	Dev	2,016
	8	4	1	1		x	x	L	12	A		
	10	2	1	0		x	x	S	12	A		
	6	2	0	0	0	x	x	S	x	X	Mis	2,742
	0	1	0	0	0					X	Mis	2,604
	0	0	0	0		x	x	S	x	X		
	0	0	0	0		x	x	S	13	X		
		1	0	0								
379	9,895	278	1	7	148					A	Mis	3,333
	x	9	0	1		x	x	S	10	A		
	x	8	0	0		x	x	S	12	A		
	x	2	0	0		x	x	S	17	A		
	x	4	0	0		x	x	S	12	A		
	x	1	0	0		x	x	S	20	A		
	x	2	0	0		x	x	L	10	A		
	x	42	0	2		37	0.34	L	10	A		
	x	185	1	4		38	0.31	OL	10	A		
		25	0	0								
	60	8	0	1	5					X	Mis	3,187
	45	6	0	1		x	x	S	10	X		
	13	2	0	0		x	x	S	5	X		
	209	15	5	1	9					A	Mis	3,331
	x	1	0	0		x	x	L	5	AC		
	x	14	5	1		37	x	L	6	AC		
6	2,247	57	0	0	39					A	Mis	3,140
	x	1	0	0		x	x	L	5	AC		
	x	55	0	0		37	x	L	10	A		
		1	0	0								
	108	8	1	0	6					A	Mis	3,692
	64	6	1	0		x	x	S	15	AL		
	19	1	0	0		x	x	L	6	AC		
	24	1	0	0		x	x	L	8	AC		
	57	10	0	0	6	x	x	L	5	AC	Mis	3,130
7,772	12,318	210	2	2	116					D	Ord	4,056
	x	0	0	0		39	x	S	10	D		
	x	165	0	1		39	0.16	S	27	D		
	x	8	0	0		39	0 31	S	9	D		
	x	1	0	0		40	0.28	D	10	D		
	x	34	2	1		38.6	x	L	25	D		
		2	0	0								
	4,216	64	0	0	49					D	Ord	4,178
	x	54	0	0		36	0.18	S	16	D		
	x	5	0	0		36	0.23	S	10	D		
	x	3	0	0		x	x	L	8	D		
	x	2	0	0		x	x	D	30	R		
	419	35	1	0	34	x	x	S	10	A	Mis	1,728
	247	17	0	0	13	x	x	S	6	A	Mis	1,735
1,889	17,650**	483	10	8	377					A	Dev	5,350
	x	1	0	0		36	x	S	10	Af		
	x	13	0	0		36	x	S	10	Af		
	x	9	0	0		36	x	S	10	Af		
	x	24	1	0		36	x	S	15	Af		
	x	46	1	0		36	0.22	S	15	Af		
	x	36	1	0		35	x	S	15	Af		
	x	4	0	0		34	x	S	12	Af		
	x	1	0	0		x	x	S	11	Af		
	x	4	0	0		x	x	S	11	Af		
	x	62	1	0		35	x	S	15	Af		
	x	25	2	0		36	x	S	12	Af		
	x	4	0	0		x	x	S	9	Af		
	x	74	3	4		37	x	S	15	Af		
	x	35	1	0		37	x	S	15	Af		
	x	20	2	1		x	x	L	10	ACf		
	x	16	1	1		38	x	LS	10	ACf		
	x	45	0	0		36	0.21	L	6	ACf		

**Figure was 108,000 bbls. too high in 1957 report.

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
1241		2 or more pays					
1242	Phillipstown S; White; 5S; 10E			1951	40		3
1243		Tar Springs, Mis	2,345	1951	10		x
1244		Aux Vases, Mis	2,985	1951	10		2
1245		McClosky, Mis	3,065	1957	20		1
1246	Pinkstaff; Lawrence; 4N; 11W	McClosky, Mis	1,735	1951	20		abd 1951
1247	Pinkstaff E; Lawrence; 4N; 11W	McClosky, Mis	1,640	1955	20		x
1248	Plainview; Macoupin; 9N; 8W	Pennsylvanian, Pen	410	1942	10		0
1249	Posen; Washington; 3S; 2W	Trenton, Ord	3,900	1952	80		4
1250	Posen N; Washington; 3S; 2W	Trenton, Ord	4,015	1953	10		1
1251	Posen S; Washington; 3S; 2W	Bethel, Mis	1,255	1955	40		x
1252	Posey; Clinton; 1N; 2W	Cypress, Mis	1,105	1941	20		.5
1253	Posey E; Clinton; 1N; 2W	Devonian, Dev	2,740	1952	180		23
1254	Posey W; Clinton; 1N; 3W	Devonian, Dev	2,585	1954	10		abd 1954
1255	Prentice;† Morgan; 16N; 8W	Pennsylvanian, Pen	270	1953	30		0
1256	Raccoon Lake; Marion; 1N; 1E			1949	400		99
1257		Cypress, Mis	1,625		190		x
1258		Bethel, Mis*	1,715		20		x
1259		Ohara, Mis*	1,885		20		x
1260		Rosiclare, Mis	1,930		220		x
1261		McClosky, Mis	1,950		280		x
1262		Devonian-Silurian	3,330		300		x
1263		2 or more pays					
1264	Raleigh; Saline; 7–8S; 6E			1953	440		104
1265		Tar Springs, Mis*	2,235		10		x
1266		Cypress, Mis	2,550		380		x
1267		Paint Creek, Mis	2,738	1958	10		x
1268		Aux Vases, Mis	2,905		40		x
1269		Rosiclare, Mis	3,025		20		3
1270		2 or more pays					
1271	Raleigh S;† Saline; 8S; 6E			1955	300		167
1272		Bethel, Mis*	2,739	1958	10		x
1273		Aux Vases, Mis	2,860	1955	300		x
1274	Raymond; Montgomery; 10N; 4–5W	Pottsville, Pen	590	1940	100		.5
1275	Raymond E; Montgomery; 10N; 4W	Pennsylvanian, Pen	595	1951	60		1
1276	Reservoir; Jefferson; 1S; 3E	McClosky, Mis	2,700	1950	220		13
1277	Richview; Washington; 2S; 1W	Cypress, Mis	1,520	1946	40		.5
1278	Ridgeway; Gallatin; 8S; 8E			1946	30		abd 1946; rev &
1279		Palestine, Mis	1,730		10		0
1280		McClosky, Mis	2,840		20		0
1281	Riffle; Clay; 4N; 6E	Rosiclare, Mis	2,735	1948	100		2
1282	Rinard; Wayne; 2N; 7E	McClosky, Mis	3,145	1937	20		abd 1942
1283	Rinard N; Wayne: 2N; 7E			1952	200		6
1284		Rosiclare, Mis	3,135		20		0
1285		McClosky, Mis	3,140		200		6
1286	Ritter; Richland; 3N; 10–11E	Ste. Genevieve, Mis	3,215	1950	80		2
1287	Ritter N; Richland; 3N; 11E	McClosky, Mis	3,215	1951	40		4
1288	Roaches; Jefferson; 2S; 1E			1938	200		7
1289		Bethel, Mis*	2,000		30		x
1290		Ohara, Mis	2,170		60		x
1291		Rosiclare, Mis	2,190		160		x
1292		McClosky, Mis	2,250		120		x
1293		2 or more pays					
1294	Roaches N; Jefferson; 2S; 1E			1944	350		27
1295		Bethel, Mis	1,925		350		x
1296		Rosiclare, Mis	2,115		60		x
1297		2 or more pays					
1298	Roby; Sangamon; 15N; 3W	Silurian, Sil	1,775	1949	80		17
1299	Roby W; Sangamon; 15N; 3W	Hibbard, Dev	1,655	1957	20		abd 1951; rev 1954 1
1300	Rochester; Wabash; 2S; 13W†			1948	280		60
1301		Pennsylvanian, Pen	1,300		130		x
1302		Waltersburg, Mis	1,940		190		x
1303		2 or more pays					
1304	Roland C;†‡ Gallatin, White; 5–7S; 8–9E			1940	8,950	1,138	2,151
1305		Pennsylvanian, Pen	1,410		50		x
1306		Degonia, Mis	2,065		10		x
1307		Palestine, Mis	2,085		20		x
1308		Waltersburg, Mis	2,200		2,010	W	x
1309		Tar Springs, Mis	2,300		340		x
1310		Hardinsburg, Mis	2,550		1,510	W	x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).
‡Illinois portion only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	71	3	2							M	Mis	3,161
	x	3	0	0	2							
	x	1	0	0		x	x	S	10	Mf		
	x	1	0	0		x	x	S	10	Mf		
	x	1	1	0		x	x	L	4	M		
	.1	1	0	0	0	x	x	L	4	X	Mis	1,797
	7	1	0	0	1	x	x	L	6	X	Mis	1,644
	2	1	0	0	0	33.7	x	S	5	X	Pen	421
	56	4	0	0	4	x	x	L	25	A	Ord	3,954
	4	1	0	0	1	x	x	L	15	AC	Ord	4,112
	x	4	1	0	1	x	x	S	2	X	Mis	1,300
	9	2	0	0	1	36	0.18	S	5	M	Sil	2,729
	37	7	5	0	7	x	x	L	8	X	Dev	2,805
	1	1	0	0	0	x	x	L	15	X	Dev	2,604
	0	3	0	0	0	x	x	S	10	X	Ord	1,513
	2,830	47	0	6	36					D	Sil	3,530
	x	18	0	1		x	x	S	10	D		
	x	2	1	0		x	x	S	15	DL		
	x	0	0	0		x	x	L	5	DC		
	x	3	1	0		x	x	S	12	DC		
	x	5	1	0		x	x	L	10	DC		
	x	15	0	5		x	x	L	10	R		
		10	1	0								
	745	41	4	0	41					A	Mis	3,188
	x	1	0	0		x	x	S	20	A		
	x	34	0	0		x	x	S	12	A		
	x	1	1	0		x	x	S	5	A		
	x	4	3	0		x	x	S	5	A		
	10	1	0	0		x	x	LS	10	A		
		2	0	0								
	526	27	10	0	27					X	Mis	3,092
	x	1	1	0		x	x	S	8	X		
	x	27	10	0		x	x	S	16	X		
	19	10	0	0	2	35	0.22	S	10	ML	Dev	2,049
	21	5	0	0	4	x	x	S	10	X	Mis	1,008
	252	11	0	0	8	x	x	L	6	MC	Mis	2,808
	14	4	0	0	1	x	x	S	7	AL	Mis	1,932
abd 1956	.1	2	0	0	0					MC	Mis	2,938
	0	1	0	0		x	x	S	18	ML		
	.1	1	0	0		x	x	L	6	MC		
	75	5	0	2	1	x	x	L	7	MC	Mis	2,848
	7	1	0	0	0	39	x	L	5	AC	Mis	3,280
	204	10	0	4	4					M	Mis	3,280
	0	1	0	0		x	x	L	6	MC		
	204	9	0	4		x	x	L	5	MC		
	114	5	0	0	1	x	x	L	5	X	Mis	3,288
	38	2	0	0	1	x	x	L	5	X	Mis	3,288
	604	13	0	1	3					A	Dev	3,840
	x	0	0	0		x	x	S	x	AL		
	x	2	0	0		37	0.22	L	5	AC		
	x	5	0	1		37	0.22	L	12	AC		
	x	6	0	0		37	0.22	L	4	AC		
		3	0	0								
	1,379	34	0	0	25					A	Mis	2,283
	x	32	0	0		x	x	S	7	A		
	x	1	0	0		x	x	L	8	AC		
		1	0	0								
	25	4	1	0	2	x	x	L	5	MU	Sil	1,822
	1	1	0	0	1	x	x	S	5	X	Tren	2,259
	958	38	0	0	0	28				M	Mis	2,810
	x	11	0	0		x	x	S	16	MCf		
	x	24	0	0		x	x	S	20	ML		
		3	0	0								
4,570	35,776**	839	10	11	669					A	Dev	5,225
	x	4	0	0		36	x	S	10	A		
	x	1	0	0		x	x	S	7	A		
	x	2	0	0		36	x	S	2	A		
	x	113	1	0		38	0.25	S	15	AL		
	x	22	1	0		37	x	S	15	AL		
	x	138	1	1		36	0.30	S	20	AL		

**Includes 162,067 bbls. omitted in 1957 report.

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
1311		Golconda, Mis*	2,505		10		x
1312		Cypress, Mis	2,700		1,440	W	x
1313		Paint Creek, Mis	2,800		340		x
1314		Bethel, Mis	2,800		1,120		x
1315		Aux Vases, Mis	2,880		2,450		x
1316		Ohara, Mis	3,020		600		x
1317		Rosiclare, Mis	3,050		600		x
1318		McClosky, Mis	3,070		1,700		x
1319		St. Louis, Mis*	x		20		x
1320		2 or more pays					
1321	Roland W; Saline; 7S; 7E	Aux Vases, Mis	2,935	1950	10		0
1322	Ruark; Lawrence; 2N; 12W, 13W			1941	430		49
1323		Pennsylvanian, Pen	1,600		310		x
1324		Bethel, Mis	2,075		80		x
1325		Aux Vases, Mis*	2,145		30		x
1326		Ohara, Mis	2,275		20		0
1327		2 or more pays					
1328	Ruark W C; Lawrence; 2N; 13W			1947	610		41
1329		Waltersburg, Mis	1,780		50		x
1330		Cypress, Mis*	2,165		10		x
1331		Bethel, Mis	2,220		440		x
1332		Ohara, Mis*	2,350		80		x
1333		Rosiclare, Mis	2,390		40		x
1334		McClosky, Mis	2,400		280		x
1335		2 or more pays					
1336	Rural Hill N; Hamilton; 5S; 5E			1949	80		50 abd 1950; rev 1956
1337		Cypress, Mis	2,930		60		x
1338		Rosiclare, Mis	3,325		20		0
1339	Russellville Gas; †Lawrence; 4–5N; 10–11W	McClosky, Mis*	1,560	1937	40		0
1340	Russellville W; Lawrence; 5N; 11W	Rosiclare, Mis	1,565	1955	20		abd 1957
1341	St. Francisville; Lawrence; 2N; 11W	Bethel, Mis	1,845		700		x see Lawrence Co. Div.
1342	St. Francisville E; Lawrence; 2N; 11W			1941	250	22	29
1343		Pennsylvanian, Pen	1,260		30		x
1344		Waltersburg, Mis	1,300		10		x
1345		Hardinsburg, Mis	1,460		40		x
1346		Cypress, Mis	1,605		10		x
1347		Bethel, Mis	1,750		230	W	x
1348	St. Jacob; Madison; 3N; 6W	Trenton, Ord	2,260	1942	1,120		56
1349	St. Jacob E; Madison; 3N; 6W	Hardin, Dev	1,840	1955	20		abd 1957
1350	St. James; Fayette; 5–6N; 2–3E			1938	1,920	28	392
1351		Golconda, Mis*	1,555		10		0
1352		Cypress, Mis	1,580		1,880	W	x
1353		Rosiclare, Mis	1,860		180		x
1354		2 or more pays					
1355	St. Paul; Fayette; 5N; 3E			1941	260		12
1356		Bethel, Mis	1,900		240		12
1357		Rosiclare, Mis	2,080		20		0
1358	Ste. Marie; Jasper; 5N; 10E, 11E, 14W	Ste. Genevieve, Mis	2,900	1941	1,220	10	140
1359	Ste. Marie E; Jasper; 6N; 14W	McClosky, Mis	2,685	1949	80		abd 1951
1360	Ste. Marie W; Jasper; 5–6N; 10E			1949	200		19
1361		Aux Vases, Mis*	2,720		10		x
1362		McClosky, Mis	2,815		200		x
1363	Sailor Springs Central; Clay; 3–4N; 7–8E			1948	70		1 abd 1955; rev 1957
1364		Tar Springs, Mis	2,330		30		0
1365		Rosiclare, Mis	3,015		40		1
1366	Sailor Springs C; Clay,			1938	14,480	287	1,528
1367	Effingham; 3–6N; 6–8E	Tar Springs, Mis	2,340		710	W	x
1368		Glen Dean, Mis*	2,390		10		x
1369		Cypress, Mis	2,550		8,440	W	x
1370		Bethel, Mis	2,740		340		x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	0	0	0		x	x	S	5	A		
	x	96	4	1		32	0.12	S	15	AL		
	x	20	1	1		36	x	S	12	AL		
	x	58	0	0		32	0.20	S	12	AL		
	x	189	5	2		32	0.12	S	13	AL		
	x	15	0	1		36	x	OL	6	AC		
	x	15	0	1		37	x	L	6	AC		
	x	62	0	2		37	0.20	L	6	AC		
	x	0	0	0		x	x	L	x	AC		
		109	2	2								
	22	1	0	0	0	x	x	S	15	ML	Mis	3,161
	2,273**	42	1	1	30					A	Mis	2,442
	x	32	1	0		33	x	S	10	AL		
	x	6	0	0		x	x	S	11	AL		
	x	2	0	1		x	x	S	7	AL		
	0	1	0	0		x	x	L	5	AC		
		1	0	0								
	789	56	0	1	50					M	Mis	2,633
	x	6	0	1		x	x	S	10	ML		
	x	0	0	0		x	x	S	9	ML		
	x	33	0	0		x	x	S	20	ML		
	x	0	0	0		x	x	L	5	MC		
	x	1	0	0		x	x	L	5	MC		
	x	5	0	0		x	x	L	3	MC		
		11	0	0								
	116**	7	1	0	6					M	Mis	3,468
	x	6	1	0		x	x	S	10	ML		
	1	1	0	0		x	x	L	8	MC		
	12	0	0	1	0	x	x	L	7	AC	Dev	3,133
	2	1	0	0	0	x	x	L	22	X	Mis	1,646
	x	82	0	1	43	32	x	S	6	ML	Mis	2,164
for Production												
22	363	22	1	1	21					A	Mis	1,960
	x	3	0	1		x	x	S	8	AL		
	x	1	0	0		x	x	S	6	AL		
	x	3	0	0		x	x	S	6	AL		
	x	1	0	0		x	x	S	15	AL		
	x	14	1	0		37	0.21	S	20	A		
	2,912	53	0	0	40	40	0.23	L	17	A	Ord	2,549
	1	1	0	0	0	x	x	S	x	X	Ord	2,600
147	14,449	206	9	1	144					A	Dev	3,457
	x	0	0	0		x	x	L	15	A		
	x	196	2	1		34	0.31	S	16	A		
	x	9	7	0		x	x	L	16	A		
		1	0	0								
	589	18	0	3	10					A	Dev	3,570
	589	17	0	2		34	0.23	S	9	A		
	0	1	0	1		x	x	L	6	A		
182	1,032	46	16	1	31	38	0.14	L	8	AC	Mis	3,034
	1	4	0	0	0	x	x	L	10	MC	Mis	3,018
	196	12	0	0	11					M	Mis	2,968
	x	0	0	0		38	x	S	25	ML		
	x	12	0	0		38	x	L	6	MC		
	4	5	1	0	2					M	Mis	3,128
	.5	3	1	0		x	x	S	6	ML		
	3.5	2	0	0		x	x	L	4	MC		
1,026	30,858	934	33	14	767					A	Mis	3,460
	x	49	1	2		37	0.17	S	12	A		
	x	0	0	0		x	x	L	8	A		
	x	488	9	6		39	0.28	S	12	A		
	x	17	0	1		36	x	S	20	A		

**Ruark includes 30,866 bbls. omitted in 1956 and 1957 reports.
Rural Hill N includes 65,000 bbls. omitted in 1957 report.

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production During 1958: Secondary recovery	Oil production During 1958: Total
1371		Aux Vases, Mis	2,825		880	W	x
1372		Ohara, Mis	2,900		280	W	x
1373		Rosiclare, Mis	2,900		1,780	W	x
1374		McClosky, Mis	2,925		x	W	x
1375		2 or more pays					
1376	Sailor Springs E; Clay; 4N; 8E			1944	130	abd 1952; rev 1955;	
1377		Cypress, Mis	2,695		90		0
1378		McClosky, Mis	3,020		40		0
1379	Sailor Springs N; Clay			1948	100		1
1380		Rosiclare, Mis	2,985		60	abd 1949; rev 1950; 1955; abd 1956; rev	x
1381		McClosky, Mis	3,030		80		x
1382		2 or more pays					
1383	Salem C; Marion, Jefferson; 1–2N; 1S, 1–2E			1938	14,510	5,497	6,492
1384		Bethel, Mis	1,780		x	W, P	x
1385		Renault, Mis*	x		x	W	x
1386		Aux Vases, Mis	1,825		x	W	x
1387		Ohara, Mis	2,075		x		x
1388		Rosiclare, Mis	2,100		x	W	x
1389		McClosky, Mis	2,050		x	W	x
1390		St. Louis, Mis*	2,100		x		x
1391		Salem, Mis	2,160		x		x
1392		Devonian, Dev	3,440		5,860	W	x
1393		Trenton, Ord	4,500		2,160		x
1394		2 or more pays					
1395	Samsville; Edwards; 1N; 11E	Waltersburg, Mis	2,420	1942	30		abd 1952
1396	Samsville N; Edwards; 1N; 14W	Paint Creek-Bethel, Mis	2,900	1945	180	.6	4
1397	Samsville NW; Edwards; 1N; 10E	Ohara, Mis	3,190	1955	20		abd 1956
1398	Samsville W; Edwards; 1N; 10E			1951	120		4
1399		Ohara, Mis	3,260		60		x
1400		Rosiclare, Mis*	3,275		40		x
1401		McClosky, Mis	3,275		40		x
1402	Sandoval; Marion; 2N; 1E			1909	500		25
1403		Cypress, Mis	1,400		20		0
1404		Benoist, Mis	1,540		460		0
1405		Geneva, Dev	2,920		390		25
1406		2 or more pays					
1407	Sandoval W; Clinton; 2N; 1W	Cypress, Mis	1,420	1946	10		.5
1408	Santa Fe; Clinton; 1N; 3W	Cypress, Mis	955	1944	10		abd 1947
1409	Schnell; Richland; 2N; 9E	McClosky, Mis	3,000	1938	80		4
1410	Schnell E; Richland; 2N; 9E	McClosky, Mis	3,115	1954	20		abd 1954
1411	Schnell S; Clay; 2N; 8E	Rosiclare, Mis	3,005	1951	60		0
1412	Seminary; Richland; 2N; 10E	McClosky, Mis	3,195	1945	160	.9	4
1413	Sesser C; Franklin; 5–6S; 1–2E			1942	960	x	83
1414		Cypress, Mis	2,455		20		x
1415		Renault, Mis	2,690		120	W	x
1416		Aux Vases, Mis	2,700		650		x
1417		Ohara, Mis	2,675		20		0
1418		Rosiclare, Mis	2,810		80		x
1419		McClosky, Mis	2,840		100		x
1420		St. Louis, Mis*	3,002		20		x
1421		Clear Creek, Dev	4,360		160		x
1422		2 or more pays					
1423	Shattuc; Clinton; 2N; 1W			1945	340		17
1424		Cypress, Mis	1,280		160		x
1425		Bethel, Mis	1,420		10		x
1426		Trenton, Ord	4,020		240		x
1427	Shawneetown; Gallatin; 9S; 9E			1945	60		1
1428		Palestine, Mis*	1,720		20	abd 1950; rev 1955	x
1429		Waltersburg, Mis*	1,900		10		x
1430		Tar Springs, Mis	1,960		30		x
1431		Cypress, Mis*	2,375		10		x
1432		Aux Vases, Mis	2,650		10		0
1433		2 or more pays					
1434	Shawneetown E; Gallatin; 9S; 10E			1952	30		1
1435		Waltersburg, Mis	1,855		10		0
1436		Bethel, Mis	2,480		10		.5
1437		Aux Vases, Mis	2,660		10		1
1438	Shawneetown N; Gallatin;			1948	50		5
1439		Aux Vases, Mis	2,750		30	abd 1953; rev 1955	5
1440		McClosky, Mis	3,045		20		0

*Multiple pay or workover wells only.

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958			Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
Secondary recovery	Total		Completed	Abandoned	Producing end of year							
	x	70	8	2		39	x	S	13	A		
	x	6	0	0		x	x	OL	6	A		
	x	69	9	1		x	x	LS	8	A		
	x	173	6	1		38	x	OL	8	A		
		63	0	1								
1955; abd 1956	64	11	0	0	0					D	Mis	3,168
	62	9	0	0		x	x	S	8	D		
	2	2	0	0		x	x	L	7	D		
	5	5	1	1	1					M	Mis	3,126
abd 1951; rev 1957												
	x	2	1	0		x	x	L	2	MC		
	x	3	1	0		x	x	L	2	MC		
		2	1	1								
24,001	264,575	2,775	7	4	2,182					A	St. P	5,655
	x	601	2	0		38	x	S	40	A		
	x	0	0	0		37	x	S	x	A		
	x	155	1	0		39	0.21	S	40	A		
	x	2	0	0		37	x	L	3	A		
	x	142	4	2		37	x	LS	15	A		
	x	590	1	1		37	x	L	17	A		
	x	0	0	0		37	x	L	x	A		
	x	8	0	0		37	x	L	17	A		
	x	541	0	0		42	0.28	L	40	A		
	x	2	0	0		x	x	L	50	A		
		736	1	1								
	1	3	0	0	0	x	x	S	7	A	Mis	3,303
7	232	16	0	0	5	x	x	S	6	A	Mis	3,220
	3	1	0	0	0	x	x	L	4	X	Mis	3,248
	139	5	0	0	4					X	Mis	3,425
	x	3	0	0		x	x	L	6	X		
	x	0	0	0		x	x	L	6	X		
	x	2	0	0		x	x	L	6	X		
	5,815	153	0	3	14					D	St. P	5,023
	0	1	0	0		x	x	S	10	D		
	2,705	123	0	0		35	x	S	20	D		
	3,110	28	0	2		38	0.38	D	9	R		
		1	0	1								
	26	1	0	0	1	x	x	S	4	A	Mis	1,560
	2	1	0	0	0	x	x	S	10	A	Dev	2,512
	248	4	0	0	2	37	0.19	OL	5	AC	Mis	3,130
	.5	1	0	0	0	x	x	L	4	AC	Mis	3,150
	10	3	0	0	0	x	x	L	4	AC	Mis	3,109
25	219	8	0	0	2	x	x	L	8	MC	Mis	3,330
x	1,452	71	4	1	61					A	Dev	4,688
	x	2	0	0		x	x	S	5	AL		
	x	10	0	0		39	0.17	L	10	AC		
	x	44	4	1		39	0.17	S	10	AL		
	0	1	0	0		x	x	L	8	A		
	x	2	0	0		x	x	L	10	AC		
	x	2	0	0		x	x	L	5	AC		
	x	0	0	0		x	x	L	20	AC		
	x	3	0	0		x	x	L	x	AC		
		7	0	0								
	541	28	0	2	20					A	Ord	4,078
	x	12	0	1		x	x	S	7	AL		
	x	1	0	0		x	x	S	13	AL		
	x	15	0	1		40	x	L	13	A		
	16	5	0	0	3					M	Mis	2,837
	x	0	0	0		x	x	S	28	M		
	x	0	0	0		x	x	S	12	M		
	x	2	0	0		x	x	S	x	M		
	x	0	0	0		x	x	S	14	M		
	.5	1	0	0		x	x	S	10	MF		
		2	0	0								
	14	3	0	0	2					X	Mis	2,830
	x	1	0	0		x	x	S	10	X		
	1	1	0	0		x	x	S	x	X		
	12	1	0	0		x	x	S	9	X		
	51	4	0	0	3					MF	Mis	3,091
	45	3	0	0		x	x	S	20	MF		
	6	1	0	0		x	x	L	6	MF		

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
1441	Shelbyville C; Shelby; 11N; 4E	Aux Vases, Mis	1,860	1946	70		1
1442	Sicily; Christian; 13N; 4W	Silurian, Sil	1,860	1956	100		14
1443	Siggins; Clark, Cumberland; 10–11N; 10–11E, 14W			1906	4,000	710	x
1444		1st (Upper) Siggins, Pen	400		3,200	see Clark Co. Div. W	x
1445		2nd (Lower) Siggins, Pen	460		500	W	x
1446		3rd & 4th Siggins, Pen	580		1,000		x
1447	Sorento C; Bond; 6N; 4W			1938	640	x	242
1448		Pennsylvanian, Pen	570		40		x
1449		Linglc, Dev	1,875		600	W	x
1450	Sorento W; Bond; 6N; 4W	Devonian, Dev	1,880	1956	20		abd 1956
1451	Sparta;† Randolph; 4–5S; 5–6W	Cypress, Mis	850	1888	20		abd 1900
1452	Sparta S; Randolph; 5S; 5W	Cypress, Mis	880	1949	10		abd 1950
1453	Stanford S; Clay, Wayne; 2N; 7E			1946	270	9	9
1454		Aux Vases, Mis	2,970		170	W	x
1455		McClosky, Mis	3,090		110		x
1456	Staunton;† Macoupin; 7N; 7W	Pennsylvanian, Pen	515	1952	10		.5
1457	Staunton W; Macoupin; 7N; 7W	Pennsylvanian, Pen	505	1954	130		9
1458	Stewardson; Shelby; 10N; 5E			1939	160		32
1459		Aux Vases, Mis	1,945	1939	130		x
1460		Rosiclare, Mis	2,021	1958	20		x
1461		2 or more pays					
1462	Storms C;† White; 5–6S; 9–10E			1939	4,340	5	363
1463		Pennsylvanian, Pen	1,320		60		x
1464		Bienl, Pen	1,840		50		x
1465		Degonia, Mis	2,090		90		x
1466		Clore, Mis	2,100		200		x
1467		Palestine, Mis	2,150		30		x
1468		Waltersburg, Mis	2,230		2,180	W	x
1469		Tar Springs, Mis	2,340		160		x
1470		Cypress, Mis	2,700		170		x
1471		Bethel, Mis	2,810		20		x
1472		Renault, Mis	2,990		10		x
1473		Aux Vases, Mis	3,000		390		x
1474		Ohara, Mis*	3,095		60		x
1475		Rosiclare, Mis	3,115		160		x
1476		McClosky, Mis	3,055		110		x
1477		2 or more pays					
1478	Stringtown; Richland; 4–5N; 11E–14W	Ste. Genevieve, Mis	3,025	1941	860	6	36
1479	Stringtown E; Richland; 4N; 14W	McClosky, Mis	3,010	1948	20		abd 1950
1480	Stubblefield S; Bond; 4N; 3W	Cypress, Mis	985	1955	10		abd 1956
1481	Sumner; Lawrence; 4N; 13W	McClosky, Mis	2,260	1944	40		abd 1953
1482	Sumpter; White; 4S; 9E			1945	130		14
1483		Tar Springs, Mis	2,575		90		x
1484		Hardinsburg, Mis	2,655		10		x
1485		Cypress, Mis	2,860		40		x
1486		2 or more pays					
1487	Sumpter E; White; 4–5S; 10E			1951	400		44
1488		Cypress, Mis	2,795		20		x
1489		Aux Vases, Mis	3,020		200		x
1490		Ohara, Mis	3,115		120		x
1491		Rosiclare, Mis	3,140		200		x
1492		McClosky, Mis	3,150		40		x
1493		2 or more pays					
1494	Sumpter N; White; 4S; 9E	Aux Vases, Mis	3,185	1952	150		53
1495	Sumpter S; White; 4–5S; 9E			1948	270		144
1496		Tar Springs, Mis	2,580		160		x
1497		Bethel, Mis*	3,025		10		x
1498		Aux Vases, Mis	3,260		150		x
1499		2 or more pays					
1500	Sumpter W; White; 4S; 9E	Aux Vases, Mis	3,165	1952	10		1
1501	Tamaroa;† Perry; 4S; 1W	Cypress, Mis	1,120	1942	150		11
1502	Tamaroa S; Perry; 4S; 1W	Cypress, Mis	1,155	1957	160		49
1503	Tamaroa W; Perry; 4S; 2W	Cypress, Mis	1,100	1956	20		x
1504	Taylor Hill; Franklin; 5S; 4E	Ohara, Mis	3,055	1949	60		4
1505	Thackeray; Hamilton; 5S; 7E			1944	730		82
1506		Cypress, Mis	3,030		20		6
1507		Aux Vases, Mis	3,360		660		x
1508		Ohara, Mis*	3,435		x		x
1509		McClosky, Mis	3,500		x		x
1510		2 or more pays					

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958			1958									
Secondary recovery	Total	Completed to end of 1958	Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	30	6	0	0	1	x	x	S	15	A	Mis	3,301
	55	5	0	1	4	x	x	L	16	X	Sil	1,884
11,220	x	1,043	0	0	447					D	Dev	2,069
for Production	x	889	1	0		34	x	S	25	D		
	x	93	0	0		34	x	S	x	D		
	x	202	0	0		26	x	S	40	D		
x	1,369	51	0	4	32					A	Ord	2,680
	x	4	0	0		x	x	S	20	A		
	x	47	0	4		35	x	S	8	A		
	0	1	0	0	0	x	x	L	x	X	Ord	2,706
	x	2	0	0	0	x	x	S	7	D	Tren	3,130
	0	1	0	0	0	x	x	S	8	A	Mis	900
377	683	22	0	1	13					A	Mis	3,247
	x	16	0	1		x	x	S	12	AL		
	x	6	0	0		37	x	L	3	AC		
	2	1	0	0	1	x	x	S	11	A	Ord	2,371
	10	14	12	0	12	x	x	S	10	X	Dev	1,487
	217	14	3	0	14					A	Mis	2,138
	x	13	2	0		37	0.18	S	9	A		
	x	2	2	0		x	x	S	4	A		
		1	1	0								
19	10,059	310	9	1	232					AM	Mis	3,267
	x	5	1	0		x	x	S	10	A		
	x	5	0	0		x	x	S	4	Af		
	x	6	0	0		38	x	S	7	AL		
	x	16	0	0		x	x	S	10	AL		
	x	2	0	0		x	x	S	12	AL		
	x	198	1	0		32	0.28	S	15	AL		
	x	11	0	0		36	x	S	10	Mf		
	x	8	2	0		x	x	S	10	Mf		
	x	2	0	0		x	x	S	x	Mf		
	x	1	0	0		x	x	L	5	A		
	x	31	2	0		38	x	S	13	Af		
	x	0	2	0		x	x	L	10	AC		
	x	8	2	0		x	x	L	2	AC		
	x	5	2	0		x	x	L	5	MC		
		16	3	1								
24	1,454	34	1	3	24	40	0.24	OL	8	AC	Mis	3,401
	2	1	0	0	0	x	x	L	4	X	Mis	3,144
	0	1	0	0	0	x	x	S	4	X	Dev	2,455
	16	2	0	0	0	x	x	L	4	MC	Mis	2,365
	190	12	0	0	9					A	Mis	3,379
	x	7	0	0		x	x	S	18	Af		
	x	1	0	0		x	x	S	14	Af		
	x	3	0	0		x	x	S	15	Af		
		1	0	0								
	652	29	0	1	26					A	Mis	3,305
	x	2	0	0		x	x	S	16	AL		
	x	10	0	0		x	x	S	15	AL		
	x	3	0	0		x	x	L	12	AC		
	x	4	0	1		x	x	L	4	AC		
	x	1	0	0		x	x	L	5	AC		
		9	0	0								
	305	14	2	0	13	x	x	S	3	NL	Mis	3,425
	322	27	13	0	25					Af	Mis	3,430
	x	12	3	0		x	x	S	8	Af		
	x	0	0	0		x	x	S	15	Af		
	x	14	11	0		x	x	S	10	Af		
		3	1	0								
	15	1	0	0	1	x	x	S	5	NL	Mis	3,336
	212	14	0	0	10	36	0.12	S	13	AL	Mis	1,630
	65	14	7	0	14	x	x	S	7	X	Mis	1,200
	x	2	1	0	2	x	x	S	5	X	Mis	1,600
	48	3	0	0	2	x	x	L	4	X	Mis	3,227
	2,820	66	0	2	55					A	Mis	3,660
	16	2	0	0		x	x	S	24	A		
	x	59	0	2		x	x	S	15	AL		
	x	0	0			x	x	L	5	AC		
	x	3	0	0		x	x	L	10	AC		
		2	0	0								

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
1511	Thompsonville; Franklin; 7S; 4E	McClosky, Mis	3,120	1940	240		abd 1947
1512	Thompsonville E; Franklin; 7S; 4E	Aux Vases, Mis	3,150	1949	90	23	50
1513	Thompsonville N; Franklin; 7S; 4E			1944	560	265	599
1514		Cypress, Mis	2,750		20		0
1515		Aux Vases, Mis	3,100		560	W	599
1516	Tilden; Randolph; 4S; 5W	Silurian, Sil	2,160	1952	520		179
1517	Toliver E; Clay; 5N; 6–7E			1943	90		3
1518		Cypress, Mis	2,510		10		0
1519		Rosiclare, Mis	2,815		20		0
1520		McClosky, Mis	2,840		60		3
1521	Toliver S; Clay; 4N; 6E			1953	70		8
1522		Aux Vases, Mis	2,765		10		2
1523		McClosky, Mis	2,875		60		5
1524	Tonti; Marion; 2–3N; 2E			1938	720	x	225
1525		Bethel, Mis	1,930		x	W	x
1526		Aux Vases, Mis	2,005		x		x
1527		Rosiclare, Mis	2,125		x		x
1528		McClosky, Mis	2,130		x	W	x
1529		Devonian, Dev	3,500		80		x
1530		2 or more pays					
1531	Tovey; Christian; 13N; 3W	Silurian, Sil	1,850	1955	20		2
1532	Trumbull; White; 5S; 8–9E			1944	710		127
1533		Cypress, Mis	2,845		160		x
1534		Aux Vases, Mis	3,170		140		x
1535		Ohara, Mis	3,230		80		x
1536		Rosiclare, Mis	3,270		140		x
1537		McClosky, Mis	3,290		320		x
1538		2 or more pays					
1539	Trumbull W; White; 5S; 8E	Aux Vases, Mis	3,120	1953	10		abd 1956
1540	Turkey Bend; Perry; 4S; 2W	Trenton, Ord	3,940	1957	20		x
1541	Valier; Franklin; 6S; 2E	McClosky, Mis	2,715	1942	20		0
1542	Waggoner; Montgomery; 11N; 5W	Pottsville, Pen	610	1940	40		x
1543	Wakefield; Jasper; 5N; 9E	Rosiclare, Mis	3,100	1946	40	abd 1947; rev 1953;	
1544	Wakefield N; Jasper; 5N; 9E	McClosky, Mis	3,000	1953	20		.5 abd 1958
1545	Wakefield S; Richland; 5N; 9E	McClosky, Mis	3,040	1955	20		abd 1955
1546	Walpole; Hamilton; 6–7S; 6E			1941	1,750		129
1547		Tar Springs, Mis	2,465		90		x
1548		Aux Vases, Mis	3,070		1,650		x
1549		Rosiclare, Mis	3,195		20		0
1550	Walpole S; Hamilton; 7S; 6E	Aux Vases, Mis	3,120	1951	20		2
1551	Waltonville; Jefferson; 3S; 2E	Bethel, Mis	2,460	1943	40		2
1552	Wamac; Clinton, Marion, Washington; 1N; 1E, 1W	Petro, Pen	720	1921	290	13	13
1553	Wamac E;† Marion; 1N; 1E	Isabel, Pen	845	1952	100		6
1554	Warrenton-Borton; Edgar-Coles; 13–14N; 13–14W	Unnamed, Pen	200	1906	160		x
1555	Waterloo; Monroe; 1–2S; 10W	Trenton, Ord	410	1920	230		x abd 1930; rev 1939;
1556	Watson; Effingham; 7N; 5–6E			1957	60		13
1557		Rosiclare, Mis	2,415	1957	40		8
1558		McClosky, Mis	2,434	1958	20		5
1559	Waverly;† Morgan; 13N; 8W	Devonian-Silurian	1,020	1946	20		0
1560	Weaver; Clark; 11N; 10W			1949	700		102
1561		Cole, Mis	1,565		20		x
1562		Devonian, Dev	2,030		700		x
1563	West Frankfort C; Franklin; 7S; 2–3E			1941	1,150	131	244
1564		Tar Springs, Mis	2,060		500	W	x
1565		Aux Vases, Mis	2,710		200		x
1566		Ohara, Mis	2,760		480		x
1567		Rosiclare, Mis*	2,810		60		x
1568		McClosky, Mis	2,825		280		x
1569		2 or more pays					
1570	Westfield; Clark, Coles; 11–12N; 11E–14W			1904	10,000	2 see Clark Co. Div.	x

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Continued)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958		Completed to end of 1958	1958									
Secondary recovery	Total		Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	285	19	0	0	0	38	0.16	L	10	A	Mis	3,455
90	316	9	0	0	8	38	x	S	8	ML	Mis	3,371
655	2,326	72	0	0	46					A	Mis	3,365
	x	1	0	0		x	x	S	10	AL		
	x	71	0	0		39	x	S	20	AL		
	2,169	25	1	0	25	42	x	L	60	R	Ord	3,093
	218	5	0	1	3					M	Mis	2,965
	0	1	0	0		x	x	S	14	M		
	14	1	0	1		x	x	L	6	MC		
	204	3	0	0		x	x	OL	8	MC		
	48	4	0	0	4					M	Mis	2,915
	19	1	0	0		x	x	S	x	MC		
	28	3	0	0		x	x	L	5	MC		
88	11,167	97	1	0	80					D	Ord	4,900
	x	9	0	0		39	x	S	20	D		
	x	17	1	0		39	x	S	30	D		
	x	5	3	0		x	x	LS	12	D		
	x	56	0	0		39	0.21	OL	15	D		
	x	7	0	0		x	x	L	7	R		
		7	1	0								
	11	1	0	0	1	x	x	L	10	X	Sil	1,881
	998	49	7	1	37					A	Mis	4,125
	x	15	2	0		36	x	S	10	A		
	x	11	2	1		36	x	S	9	A		
	x	2	1	0		x	x	L	15	AC		
	x	4	1	0		x	x	L	6	AC		
	x	13	1	0		x	x	L	5	AC		
		4	0	0								
	4	1	0	0	0	x	x	S	x	X	Mis	3,330
	x	1	0	0	1	x	x	L	x	X	Ord	4,044
	2	1	0	0	0	x	x	L	12	ML	Mis	2,725
	11	4	0	0	0	28	0.21	S	10	X	Dev	1,893
abd 1954	2	2	0	0	0	x	x	L	5	X	Mis	3,207
	20	1	0	1	0	x	x	L	6	X	Mis	3,204
	0	1	0	0	0	x	x	L	4	X	Mis	3,059
	6,088	99	1	0	93					A	Mis	3,390
	x	6	0	0		36	x	S	15	AL		
	x	92	1	0		38	0.13	S	20	A		
	9	1	0	0		x	x	L	7	AC		
	113	2	0	0	2	x	x	S	6	AL	Mis	3,362
	108	4	0	0	3	38	0.14	S	9	A	Mis	2,905
16	628	113	4	1	10	30	x	S	20	DF	Mis	1,760
	28	10	1	0	7	x	x	S	15	ML	Mis	2,216
	32	30	1	1	2	x	x	S	20	ML	Tren	2,212
	238	41	0	0	3	30	0.97	L	50	A	Precam	2,768
conv. in part to gas storage, 1951												
	13	3	2	0	3					X	Mis	2,647
	8	2	1	0		x	x	S	5	X		
	5	1	1	0		x	x	L	11	X		
	0	1	0	0	0	x	x	L	10	A	Ord	1,534
	1,494	39	1	0	30					R	Dev	2,160
	x	1	0	0		x	x	L	5	D		
	x	38	1	0		37	x	L	10	R		
132	3,445	81	0	0	73					A	Mis	3,156
	x	37	0	0		39	0.13	S	20	A		
	x	14	0	0		37	x	S	20	AL		
	x	11	0	0		39	x	L	8	AC		
	x	0	0	0		x	x	L	8	AC		
	x	6	0	0		38	x	L	14	AC		
		13	0	0								
13 for Production	x	1,691	18	16	185					D	St. P	3,009

TABLE 11.—

Line no.	Pool; County; Twp.-Range	Pay Zone: Name, age and depth		Year of discovery	Area proved (acres)	Oil production: During 1958: Secondary recovery	Oil production: During 1958: Total
1571		Gas, Pen	280		9,060	W	x
1572		Westfield, Mis	335		9,030		x
1573		Carper, Mis	875		120		x
1574		Trenton, Ord	2,300		600		x
1575		2 or more pays					
1576	Westfield E;† Clark; 11–12N; 14W	Pennsylvanian, Pen	400	1947	130		x
1577	Westfield N; Coles; 12N; 14W			1949	20		abd 1957
1578		Pleasantview, Pen	275		10		0
1579		Pennsylvanian, Pen	490		10		0
1580	Whittington; Franklin; 5S; 3E			1939	550		55
1581		Hardinsburg, Mis	2,310		80		x
1582		Cypress, Mis	2,535		70		x
1583		Aux Vases, Mis	2,735		40		x
1584		Ohara, Mis	2,835		240		x
1585		Rosiclare, Mis	2,880		20		x
1586		McClosky, Mis	2,870		100		x
1587		St. Louis, Mis	3,080		40		x
1588		2 or more pays					
1589	Whittington S; Franklin; 5–6S; 3E	Cypress, Mis	2,580	1950	100		20
1590	Whittington W; Franklin; 5S; 2E			1943	400		174
1591		Bethel, Mis	2,615		10		x
1592		Renault, Mis	2,680		150		x
1593		Aux Vases, Mis	2,700		150		x
1594		Ohara, Mis	2,800		100		x
1595		Rosiclare, Mis*	2,780		20		x
1596		McClosky, Mis	2,900		40		x
1597		2 or more pays					
1598	Williams C; Jefferson; 2–3S; 2E			1948	400		68
1599		Bethel, Mis	2,490		170		x
1600		Aux Vases, Mis	2,550		280		x
1601		McClosky, Mis*	x		20		x
1602		2 or more pays					
1603	Willow Hill E; Jasper; 6–7N; 10–11E	McClosky, Mis	2,645	1946	320	3	4
1604	Woburn C; Bond; 6–7N; 2W —			1940	1,610	x	327
1605		Cypress, Mis	865		220		x
1606		Bethel, Mis	1,020		320	W	x
1607		Renault, Mis	1,047	1958	20		x
1608		Aux Vases, Mis	1,055		50		x
1609		Lingle, Dev	2,275		940		x
1610		Trenton, Ord	3,170		340		x
1611		2 or more pays					
1612	Woodlawn; Jefferson; 2–3S; 1–2E			1940	1,980		360
1613		Tar Springs, Mis	x		20		x
1614		Cypress, Mis	1,800		80		x
1615		Bethel, Mis	1,960		1,900		x
1616		Aux Vases, Mis*	1,975		240		x
1617		Rosiclare, Mis	2,205		300		x
1618		McClosky, Mis*	2,200		20		x
1619		Lingle, Dev	3,690		240		x
1620	Xenia; Clay; 2N; 5E	Aux Vases, Mis	2,785	1941	10		1
1621	Xenia E; Clay; 2N; 5E			1951	160		17
1622		Cypress, Mis	2,530		150		x
1623		Bethel, Mis	2,710		10		x
1624	York; Cumberland, Clark; 9–10N; 10–11E, 14W	Isabel, Pen	590	1907	350	1	x see Clark Co. Div. abd 1945; rev 1950
1625	Zenith; Wayne; 2N; 5E	McClosky, Mis	2,970	1948	40		abd 1956
1626	Zenith N; Wayne; 2N; 6E			1951	280		40
1627		Rosiclare, Mis	3,080		240		x
1628		McClosky, Mis	3,140		180		x
1629		2 or more pays					
1630	Zenith S; Wayne; 1N; 5E			1949	280		6
1631		Ohara, Mis*	2,920		40		x
1632		McClosky, Mis	2,985		280		x
1633		2 or more pays					
1634	Total for Illinois				562,535		80,779

*Multiple pay or workover wells only.
†Pool listed in table 12 (gas production).

(Concluded)

(M bbls.)		Number of wells				Character of oil		Pay zone			Deepest zone tested to end of 1958	
To end of 1958			1958									
Secondary recovery	Total	Completed to end of 1958	Completed	Abandoned	Producing end of year	Gravity API	Sulphur per cent	Character	Av. thickness in ft.	Structure	Name	Depth of hole (ft.)
	x	209	1	4		28	x	S	25	D		
	x	1,453	3	11		34	x	L	x	D		
	x	11	1	1		x	x	S	18	D		
	x	34	13	0		38	0.18	L	40	D		
		4	0	0								
	x	13	0	0	3	x	x	S	11	ML	Pen	678
	.4	2	0	0	0					X	Pen	611
	.4	1	0	0		x	x	S	5	X		
	0	1	0	0		x	x	S	10	X		
	913	36	0	2	29					A	Dev	4,810
	x	6	0	0		x	x	S	10	A		
	x	6	0	1		39	x	S	10	A		
	x	3	0	0		x	x	S	15	A		
	x	11	0	0		x	x	L	10	AC		
	x	1	0	0		x	x	L	10	AC		
	x	5	0	1		38	0.24	L	9	AC		
	x	1	0	0		38	0.24	L	6	AC		
		2	0	0								
	336	10	0	0	10	x	x	S	10	A	Mis	2,953
	456	24	5	1	14					A	Mis	2,942
	x	1	0	0		x	x	S	10	AL		
	x	11	5	0		x	x	S	15	AL		
	x	4	1	0		x	x	S	15	AL		
	x	1	0	1		x	x	L	5	AC		
	x	0	0	0		x	x	L	4	AC		
	x	1	0	0		x	x	L	6	AC		
		6	0	1								
	815	41	0	1	37					A	Dev	4,578
	x	11	0	0		x	x	S	10	AL		
	x	27	0	1		x	x	S	5	AL		
	x	0	0	0		x	x	L	x	AC		
		3	0	0								
4	239	18	0	0	6	x	x	L	6	A	Mis	3,281
x	3,130	126	5	1	110					A	Ord	3,279
	x	20	0	0		x	x	S	8	AL		
	x	34	0	0		36	0.20	S	10	AL		
	x	1	1	0		x	x	L	x	AL		
	x	2	0	0		x	x	S	10	AL		
	x	51	4	1		x	x	S	8	AC		
	x	16	0	0		38	0.27	L	12	AC		
		1	0	0								
	15,017	191	0	0	121					A	Ord	5,101
	x	0	0	0		x	x	S	x	AL		
	x	3	0	0		x	x	S	10	AL		
	x	173	0	0		38	0.16	S	25	A		
	x	0	0	0		39	x	S	10	A		
	x	4	0	0		x	x	LS	15	A		
	x	0	0	0		x	x	L	3	A		
	x	11	0	0		39	x	S	6	A		
	33	1	0	0	1	35	0.19	S	13	A	Dev	4,698
	413	15	0	1	9					A	Mis	3,011
	x	14	0	1		x	x	S	6	AL		
	x	1	0	0		x	x	S	6	AL		
15	x	71	0	0	7	30	x	S	15	AM	Dev	2,642
for Production												
	24	2	0	0	0	x	x	L	7	AC	Mis	3,059
	821	14	1	0	14					N	Mis	3,254
	x	8	0	0		x	x	L	6	NC		
	x	2	1	0		x	x	L	4	NC		
		4	0	0								
	749	14	0	0	4					M	Mis	3,116
	x	0	0	0		x	x	L	6	MC		
	x	12	0	0		x	x	L	7	MC		
		2	0	0								
	2,076,318	53,008	1,019	659	32,003							

TABLE 12.—GAS PRODUCTION IN ILLINOIS, 1958

EXPLANATION OF ABBREVIATIONS

Pool: N, North; S, South; E, East; W, West; C, Consolidated.

Age: Precam, Precambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen, Pennsylvanian.

Character of formation: L, limestone; LS, sandy limestone; OL, oolitic limestone; D, dolomite; DS, sandy dolomite; S, sandstone.

Structure: A, anticlinal; AC, anticline with accumulation due to change in character of rock; AF, anticline with faulting as an important factor; Af, anticline with faulting as a minor factor; AL, anticline-lens; AM, accumulation due to both anticlinal and monoclinal structures; D, dome; H, strata horizontal or nearly horizontal; MC, monocline with accumulation due to change in character of rock; MF, monocline-fault; ML, monocline-lens; MU, monocline-unconformity; R, reef; X, not determined; M, monocline.

x—Correct figure not determinable.

Line no.	Pool; County; Twp.; Range	Pay Zone: Name, age and depth	Year of discovery	Area proved (acres)	Gas production Million cu. ft.: During 1958	Gas production Million cu. ft.: To end of 1958	Number of wells: Completed to end of 1958	Number of wells: 1958 Completed	Number of wells: 1958 Abandoned	Number of wells: 1958 Producing end of year	Pay Zone: Character	Pay Zone: Av. thickness (ft.)	Pay Zone: Structure	Deepest Zone tested: Name	Deepest Zone tested: Depth of hole (ft.)
1	Albion C;* Edwards, White; 3S; 10E	Pennsylvanian, Pen	1,490	1940	40	0	0	1	0	0	0	S	6	MF	Dev	5,185
2	Ashmore S;* Clark, Coles; 12N; 10–11E, 14W	Unnamed, Pen	430	1958	30	0	0	3	3	0	3	S	x	A	Mis	511
3	Ava-Campbell Hill;* Jackson; 7S; 3–4W	Cypress, Mis	780	1916	370	abd 1943; rev (oil) 1956; abd 1957	x	20	0	0	0	S	18	A	Tren	3,582
4	Ayers Gas; Bond; 6N; 3W	Bethel, Mis	940	1922	325	abd 1950	298.7	21	0	0	0	S	5	A	Ord	3,044
5	Beaver Creek S;* Clinton, Bond; 3–4N; 2W	Cypress, Mis	1,015	1946	240	0	0	6	0	0	0	S	20	A	Dev	2,539
6	Beckemeyer Gas;* Clinton; 2N; 3W	Cypress, Mis	1,070	1956	80	0	0	2	0	2	0	S	23	X	Sil	2,730
						abd 1958										
7	Beverly Gas; Adams; 3S; 5W	Silurian, Sil	450	1957	80	0	0	2	0	0	0	L	6	X	Sil	498
8	Boulder;* Clinton; 2–3N; 2W	Geneva, Dev	2,630	1941	320	0	0	4	0	0	0	D	7	R	Tren	3,813
9	Boulder E;* Clinton; 3N; 1W	Devonian, Dev	2,840	1957	40	abd 1957	0	1	0	0	0	L	12	X	Sil	2,895
10	Carlinville;* Macoupin; 9N; 7W	Unnamed, Pen	365	1941	60	0	0	6	2	0	2	S	x	A	Mis	1,380
						abd 1925; rev 1942										
11	Carlinville N;* Macoupin; 10N; 7W	Pottsville, Pen	440	1941	40	abd 1954	0	1	0	0	0	S	10	X	Tren	1,970
12	Carlyle;* Clinton; 2N; 3W	Cypress, Mis	1,015	1958	10	x	x	1	1	0	1	S	x	AL	St. P	4,120
13	Claremont; Richland; 3N; 14W	Rosiclare, Mis	3,200	1950	160	abd 1952	0	1	0	0	0	L	5	MC	Mis	3,340
14	Cooks Mills C;* Coles, Douglas;			1941	830	212.8	212.8	20	3	0	20			A	Dev	2,888
15	14N; 7–8E	Cypress, Mis	1,600		600	212.8	212.8	11	2	0		S	10	A		
16		Aux Vases, Mis	1,800		40	0	0	1	0	0		S	8	A		
17		Rosiclare, Mis	1,765		410	0	0	5	1	0		S	15	A		
18		2 or more pays						3	0	0						
19	Dubois C;* Washington; 3S; 1–2W	Cypress, Mis	1,220	1939	400	0	0	10	0	0	0	S	10	AL	Ord	4,217
20	Dudley;* Edgar; 14N; 13W	Pennsylvanian, Pen	300	1948	80	0	0	2	0	0	0	S	20	M	St. P	2,997
21	Dudley W Gas; Edgar; 13N; 13W	Gas, Pen	380	1953	40	0	0	1	0	0	0	S	11	X	Pen	428
22	Eldorado C;* Saline; 8S; 7E			1941	160	339.5	1,606.7	4	0	0	3			A	Mis	3,606
23		Palestine, Mis	1,920		40	x	x	1	0	0		S	20	AL		
24		Waltersburg, Mis	2,055		80	x	x	2	0	0		S	20	AL		
25		Tar Springs, Mis	2,225		40	0	0	1	0	0		S	17	AL		
26	Eldorado E;* Saline; 8S; 7E			1953	120	30.4	198.9	2	0	0	2			A	Mis	3,102
27		Palestine, Mis	1,900		80	x	x	1	0	0		S	30	AL		
28		Tar Springs, Mis†	2,135		40	x	0	0	0	0		S	20	AL		
29		2 or more pays						1	0	0						
30	Fishhook Gas; Adams; Pike; 3–4S; 4–5W	Edgewood, Sil	450	1955	7,160	0	0	65	8	1	0	L	5	X	St. P	930
31	Freeburg;* St. Clair; 1–2S; 7W	Cypress, Mis	380	1956	700	x	x	29	23	1	28	S	30	X	Ord	2,008

32	Gillespie-Benld (Gas); Macoupin; 8N; 6W	Unnamed, Pen	540	1923	80	abd 1935	135.8	5	0	5	0	S	x	A	Pen	603
33	Gillespie W; Macoupin; 8N; 7W	Unnamed, Pen	525	1958	10	x	x	1	1	0	1	S	x	X	Pen	540
34	Grandview;* Edgar; 12–13N; 13W			1945	400	x	x	12	0	0	3			M	Ord	2,694
		Mis				abd 1923; rev 1957; abd 1958										
35	Greenville Gas;* Bond; 5N; 3W	Lindley (1st & 2nd)	925	1910	180	0	990.0	4	0	0	0	S	x	A	Tren	3,184
36		Gas, Pen	400		360	x	x	11	0	0		S	x	ML		
37		Salem, Mis	570		40	x	x	1	0	0		L	2	MC		
38	Harco, Harco E & Raleigh S; *Saline; 8S; 5–6E	X, Mis	x	1954	x	603.1	1,041.5	x	0	0	x				Mis	3,107
39	Harrisburg;* Saline; 8S; 6E	Tar Springs, Mis	2,085	1952	160	0	93.2	1	0	0	0	S	6	X	Mis	2,789
40	Herald C;* Gallatin; White; 6–8S; 9–10E			1939	1,080	37.6	x	19	0	0	7			A	Mis	3,394
41		Anvil Rock, Pen	700		360	x	x	9	0	0		S	25	AL		
42		Pennsylvanian, Pen	1,750		120	0	x	3	0	0		S	18	AL		
43		Waltersburg, Mis	2,240		120	0	x	3	0	0		S	10	A		
44		Tar Springs, Mis	2,315		480	x	x	4	0	0		S	6	AL		
45	Inclose;* Clark, Edgar; 12N; 13–14W	Pennsylvanian, Pen	540	1941	320	x	x	8	0	0	0	S	12	X	Mis	815
46	Jacksonville (Gas);* Morgan; 15N; 9W	Gas, Pen, Mis	330	1910	1,320	abd 1939	x	45	0	0	0	LS	5	ML	Ord	1,390
47	Kansas Gas; Edgar; 13N; 14W	Unnamed, Pen	410	1958	30	x	x	3	2	0	3	S	x	X	Mis	778
48	Livingston E Gas; Madison; 6N; 6W	Pennsylvanian, Pen	540	1951	40	0	0	1	0	0	0	S	12	X	Mis	815
49	Livingston S;* Madison; 6N; 6W	Pennsylvanian, Pen	530	1950	40	0	0	1	0	0	0	S	2	ML	Mis	845
50	Louden;* Fayette; 7N; 3E			1937	1,760	0	x	14	0	0	0			A	St. P	4,680
51		Burtschi, Pen	1,000		320	0	x	5	0	0		S	20	AL		
52		Tar Springs, Mis	1,170		1,440	0	0.9	9	0	0		S	2	AL		
53	Main C;* Crawford, Lawrence; 5–8N; 10–14W			1906	x	x	x	x	0	0	x			M	St. P	4,654
54		Robinson, Pen	1,000		x	x	x	x	0	0		S	x	ML		
55		Hardinsburg, Mis	1,075		160	x	0	1	0	0		S	40	ML		
56		Cypress, Mis	1,425		320	x	x	2	0	0		S	6	ML		
57	Mt. Olive;* Montgomery; 8N; 5W	Pottsville, Pen	605	1942	100	0	0	4	1	0	0	S	6	A	Dev	1,819
58	Omaha;* Gallatin; 7–8S; 8E	Tar Springs, Mis	1,900	1940	120	0	0	2	0	0	0	S	15	D	Mis	2,941
59	Panama;* Bond, Montgomery; 7N; 3–4W			1940	280	0	x	7	0	0	0			A	Dev	2,016
60		Pennsylvanian, Pen	575		160	0	x	4	0	0		S	30	A		
61		Bethel, Mis	865		120	0	x	3	0	0		S	12	A		
62	Pittsfield (Gas); Pike; 5S; 4–5W	Niagaran, Sil	265	1886	8,960	abd 1930	x	68	0	0	0	L	10	A	Precam	2,226
63	Prentice;* Morgan; 16N; 8W	Pennsylvanian, Pen	260	1953	290	0	0	7	1	0	0	S	15	X	Ord	1,513
64	Redmon N; Edgar; 14N; 13W	Pennsylvanian, Pen	365	1955	40	0	0	1	0	0	0	S	3	X	Mis	450
65	Roland C;* Gallatin; 7S; 8E	Waltersburg, Mis	2,150	1940	160	0	0	1	0	0	0	S	19	AL	Dev	5,225
66	Russellville Gas;* Lawrence; 4–5N; 10–11W			1937	1,800	0	7,081.6	60	0	2	0			A	Dev	3,133
67		Bridgeport, Pen	760		x	0	x	18	0	1		S	15	AL		
68		Buchanan, Pen	1,100		x	0	x	42	0	1		S	12	AL		
69	Spanish Needle Creek (Gas); Macoupin; 9N; 7W	Unnamed, Pen	305	1915	80	abd 1934	14.4	7	0	0	0	S	x	D	Tren	2,070
70	Sparta;* Randolph; 4–5S; 5–6W	Cypress, Mis	850	1888	160	abd 1900	x	18	0	0	0	S	7	D	Tren	3,130
71	Staunton (Gas); Macoupin; 7N; 7W	Unnamed, Pen	460	1916	400	abd 1919	1,050.0	18	0	0	0	S	x	A	Ord	2,371
72	Storms C;* White; 5–6S; 9–10E			1939	440	0.4	x	9	1	0	2			A	Mis	3,267
73		Gas, Pen	1,090		170	0.4	x	2	1	0		S	40	Af		
74		Waltersburg, Mis	2,230		280	0	0	7	0	0	0	S	15	AL		
75	Tamaroa;* Perry; 4S; 1W	Cypress, Mis	1,120	1942	20	0	0	2	0	0	0	S	13	AL	Mis	1,630
76	Wamac E;* Marion; 1N; 1E	Petro, Pen	856	1958	30	0	0	3	3	0	3	S	x	M	Dev	3,405
77	Waverly;* Morgan; 13N; 8W‡			1946	860	0	0	7	0	0	0			A	Ord	2,070
78		Pennsylvanian, Pen	250		160	0	0	1	0	0		S	13	AL		
79		Devonian, Dev	1,000		700	0	0	6	0	0		L	10	A		
80	Westfield E;* Clark; 12N; 14W	Pennsylvanian, Pen	400	1947	40	0	0	1	0	0	0	S	11	ML	Pen	678
81	Total for Illinois				31,225	1,224.0	14,051.9	531	48	11	78					

*Pool also produces oil.
†Multiple pay or workover wells only.
‡Pilot storage in St. Peter.

PART II

WATERFLOOD OPERATIONS

CARL W. SHERMAN AND RICHARD F. MAST

INTRODUCTION

As in previous years, this report is the result of a joint effort by the Illinois Geological Survey and the Illinois Secondary Recovery and Pressure Maintenance Committee of the Interstate Oil Compact Commission. The following persons were appointed by Governor William G. Stratton to the committee and it was through their efforts and the cooperation of many waterflood operators that it was possible for the Illinois Geological Survey to collect the data presented in this report.

Carl W. Sherman, Chairman—Illinois State Geological Survey, Urbana, Illinois
A. H. Bell, Past Chairman—Illinois State Geological Survey, Urbana, Illinois
Hugh S. Barger, Barger Engineering, Evansville, Indiana
C. E. Brehm, Box 618, Mt. Vernon, Illinois
Robert Bulla, Robinson, Illinois
James T. Dorland, Calvert Drilling Company, Olney, Illinois
Robert E. Dunn, Walter Duncan Oil Properties, Mt. Vernon, Illinois
Jim Eads, Superior Oil Company, Crossville, Illinois
Millard Flood, The Ohio Oil Company, Terre Haute, Indiana
T. W. George, Box 152, Mt. Carmel, Illinois
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R. W. Love, Texaco, Inc., Salem, Illinois
John Patterson, Shell Oil Co., Centralia, Illinois
Paul Phillipi, Forest Oil Corporation, Casey, Illinois
Mark Plummer, The Pure Oil Company, Olney, Illinois
J. D. Simmons, Carter Oil Company, Mattoon, Illinois
Marion Smith, Gulf Oil Corporation, Evansville, Indiana
W. G. Sole, Magnolia Petroleum Company, Salem, Illinois
C. R. Temple, Sohio Petroleum Company, Centralia, Illinois
R. R. Vincent, C. L. McMahon, Inc., Evansville, Indiana
R. A. Wilson, Tidewater Oil Company, Robinson, Illinois

This report supplements nine similar summaries of waterflood operations published by the Illinois Geological Survey and covering the years 1949 through 1957. Anthony Richards and Darlene Falk assisted in compiling the data presented in this year's summary.

The stratigraphic sequence of formations in the Illinois Basin is listed below, with asterisks indicating the oil producing zones and the number of reported waterflood projects being given in the right-hand column.

NAME OF FORMATION (SAND NAME)	NUMBER OF WATERFLOODS REPORTED DURING 1958
* (Westfield "Gas" Sand)	0
* (Casey "Gas" Sand)	1
* (Siggins)	4
* (Bellair "500")	2
* (Biehl)	27
* (Bridgeport)	8
* (Casey)	13
* (Claypool)	3
* (Jordan)	6
* (Pennsylvanian unclassified)	4
* (Petro)	2
* (Robinson)	55
* (U. Partlow)	7
Kinkaid	0
* (Chester unclassified)	2
*Degonia	1
*Clore	1
*Palestine	1
Menard	0
*Waltersburg	9
Vienna	0
*Tar Springs	16
*Glen Dean	0
*Hardinsburg	4
*Golconda (Jackson)	3
*Cypress (Kirkwood, Weiler)	93
*Paint Creek (Bethel)	31
*Yankeetown (Benoist)	31
*Renault	4
*Aux Vases	62
Ste. Genevieve	
* (Ohara)	7
* (Rosiclare)	22
* (McClosky)	53
*St. Louis	0
*Salem	0
Osage	
* (Carper)	0
Chouteau	0
New Albany	0
*Devonian	3
*Silurian	0
Maquoketa	0
* (Trenton)	0

*Oil producing formation. See also figure 3.

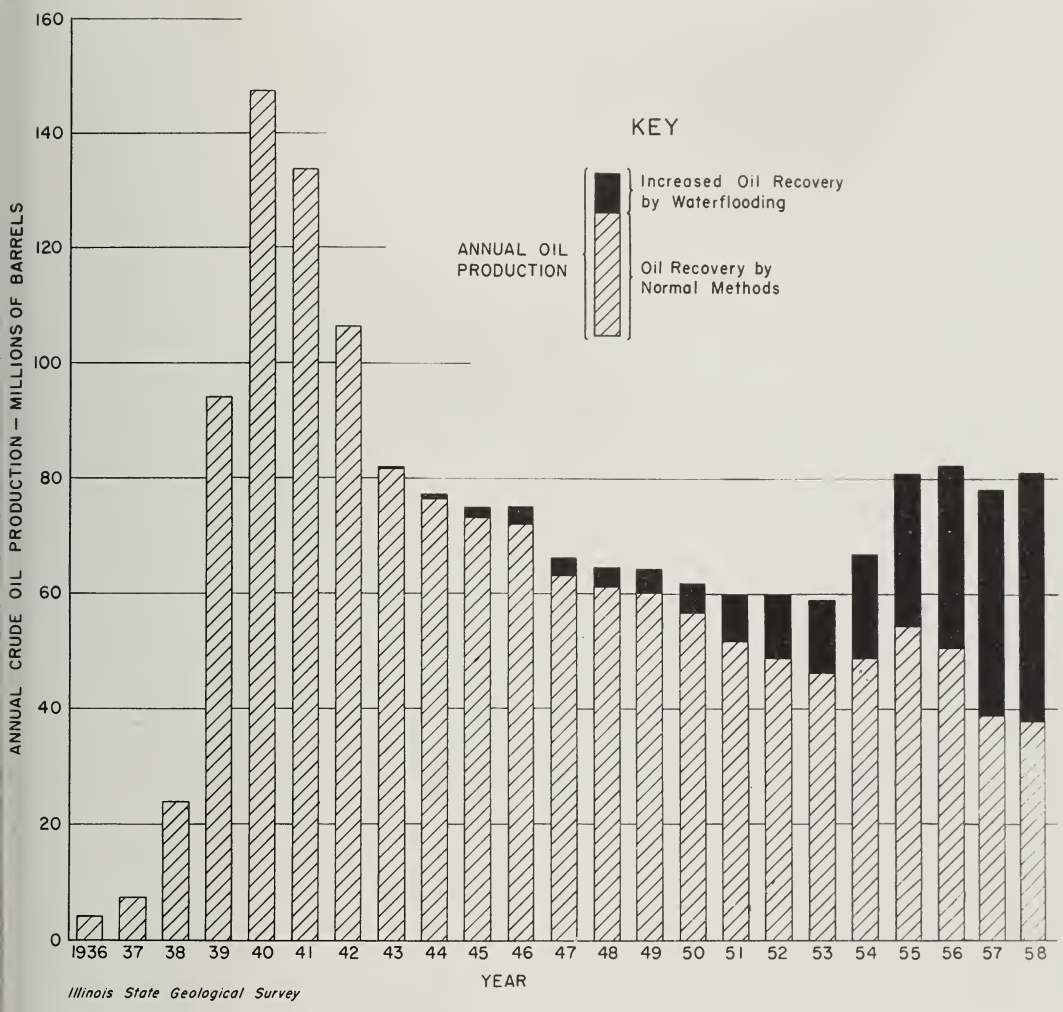


Fig. 4. — Annual crude oil production in Illinois.

SUMMARY

As the review of 1957 waterflood operations (Illinois Geological Survey Bulletin 85) anticipated, the artificial depression of crude oil production during 1957, because of economic conditions, was relieved in 1958 and resulted in gains in both primary and secondary oil.

In 1958 Illinois' total waterflood oil production increased by some 6,873,000 barrels over the 1957 figure to a record high of 42,923,000 barrels. The increase represents a gain of 19 percent over the previous year's waterflood production, and the secondary oil amounted to 53 percent of the state's total crude oil production during 1958.

The total waterflood oil in 1958 represents 40,883,000 barrels from the controlled projects report in table 15 and an estimated 2,040,000 barrels from dump floods. This gross figure of 42,923,000 barrels does not include the 1,200,000 barrels of oil that were produced from projects that injected water but were previously classified as pressure maintenance operations and are tabulated in table 16.

A visual presentation of the importance of secondary operations in Illinois is shown in figure 4. The cumulative total waterflood oil at the end of 1958 was 224,147,000

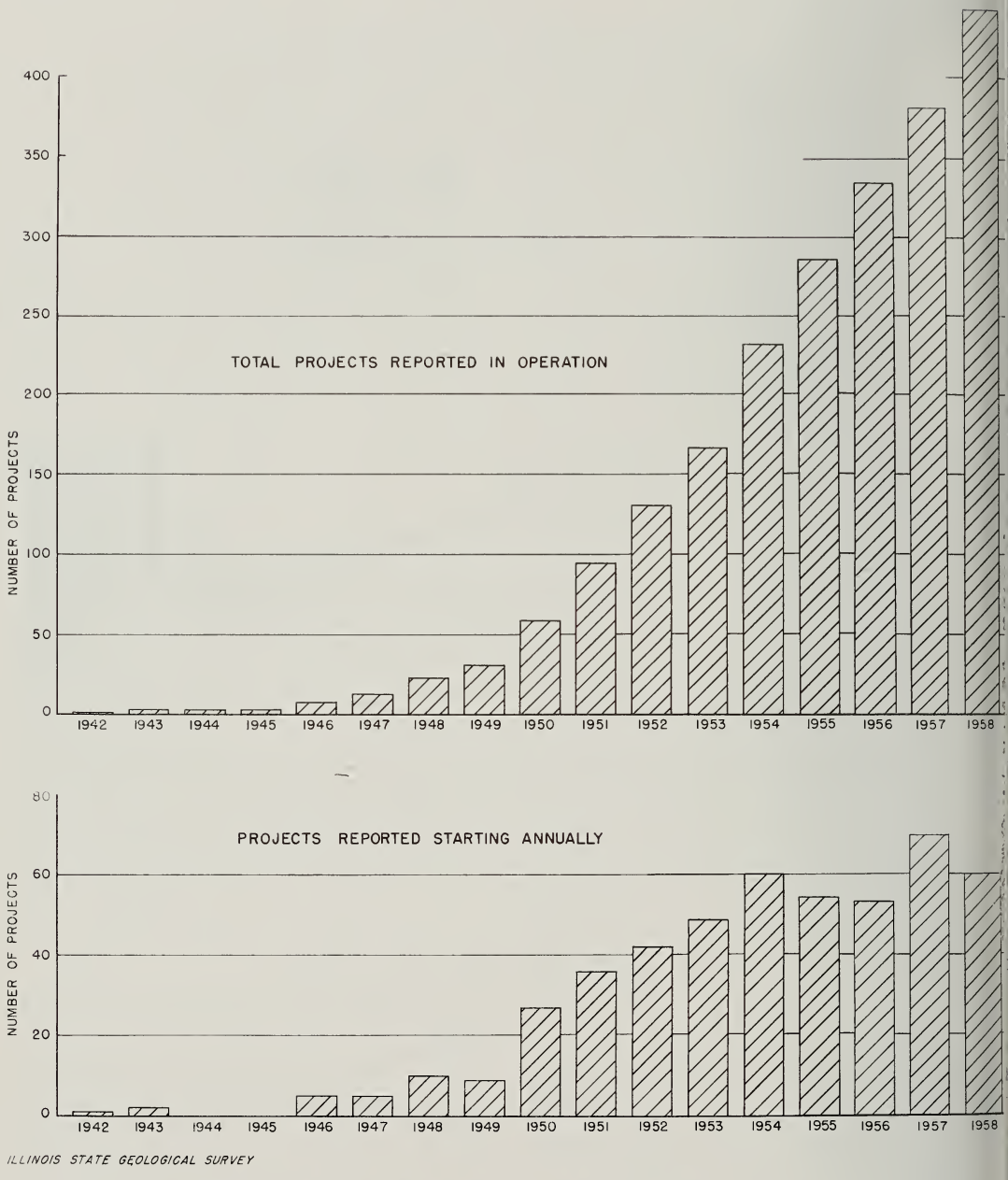


Fig. 5. — Reported development of waterflood projects in Illinois.

barrels and included 25,290,000 barrels of dump flood oil.

During 1958 there were 443 controlled projects reported in operation. This addition of 61 projects over the 1957 figure is a 16 percent increase and is consistent with the growth during the last few years. These values are plotted in the bar graphs in figure 5. In terms of acreage under flood, 1958 shows a gain of 9.5 percent (10,500 acres) and brings the total flood-affected acres to 122,500. This area is about 22 percent of Illinois' 562,535 productive acres. The average waterflood recovery per acre

from controlled projects is now a little more than 1,620 barrels.

Using only the data in table 15 (excluding all dump flooding and pressure maintenance projects) the water injected during 1958 was 317,153,000 barrels which brings the cumulative total water injection to 1,606,500,000 barrels. Because of year-to-year corrections by operators, cumulative totals for oil and water are recalculated each year and do not necessarily equal the previous year's cumulative plus the current year's total. The ratio of water injected to oil produced during 1958 is 7.4, whereas this same ratio for cumulative totals is 8.1. As both values are appreciable reductions from the 1957 ratios, it can be assumed that more floods are reaching peak oil production (reducing the ratio of barrels of water injected to barrels of oil produced) than are approaching their declining years of high water cut (increasing these ratios). These declining ratios also suggest that perhaps the total water injection into new floods (where production has not yet responded to fluid injection) is decreasing.

The controlled projects list 6,647 injection wells and 8,567 producers in operation during 1958.

In addition to the tables and figures previously discussed, several others are included in this report.

Table 13 is a key to the system of numbering used on plate 2 and is also a summary of controlled waterflood projects by counties.

Table 14 is a numerical listing of the projects in table 15 where they are arranged alphabetically by pools. Used as a cross index, this table will allow the reader to locate easily in table 15 any flood which is of particular interest because of its geographical location, shown on plate 2.

Table 16 is a tabulation of the information obtained on the 15 projects that inject water as a means of maintaining reservoir pressure. In many instances it is questionable whether an operation is actually pressure maintenance or waterflooding but no attempt has been made in this summary to reclassify the projects or to differentiate between primary or secondary oil.

Table 17 presents the data available on the 50 waterflood projects that have been abandoned by the end of 1958. From the data in this table, it is apparent that almost all of the abandonments to date have been because of failure to respond properly to fluid injection rather than to completion of flood life.

TABLE 13.—PROJECT NUMBERS BY COUNTY AND SUMMARY OF WATERFLOOD PROJECTS IN 1958

No.	County	Active water floods	Active pressure maintenance	Abandoned	Total
000	Bond	3	1	0	4
100	Christian	3	0	0	3
200	Clark	17	0	6	23
300	Clay	30	0	0	30
400	Clinton	5	3	1	9
500	Coles	3	0	0	3
600	Crawford	74	0	6	80
700	Cumberland	4	0	1	5
800	Douglas	1	0	0	1
900	Edgar	0	0	0	0
1000	Edwards	13	2	2	17
1100	Effingham	5	0	0	5
1200	Fayette	24	1	0	25
1300	Franklin	7	0	0	7
1400	Gallatin	15	1	0	16
1500	Hamilton	10	0	0	10
1600	Hancock	0	0	0	0
1700	Hardin	0	0	0	0
1800	Jackson	0	0	0	0
1900	Jasper	9	0	1	10
2000	Jefferson	4	2	2	8
2100	Johnson	0	0	0	0
2200	Lawrence	38	0	3	41
2300	Macon	0	0	0	0
2400	Macoupin	0	0	0	0
2500	Madison	2	0	0	2
2600	Marion	12	0	0	12
2700	McDonough	0	0	0	0
2800	Monroe	0	0	0	0
2900	Montgomery	0	0	0	0
3000	Moultrie	0	0	0	0
3100	Perry	0	0	0	0
3200	Pope	0	0	0	0
3300	Randolph	0	0	0	0
3400	Richland	16	0	1	17
3500	Saint Clair	0	0	0	0
3600	Saline	1	0	0	1
3700	Sangamon	0	0	0	0
3800	Shelby	0	0	0	0
3900	Wabash	52	2	6	60
4000	Washington	3	0	0	3
4100	Wayne	33	0	3	36
4200	White	59	3	14	76
4300	Williamson	0	0	0	0
	Totals	443	15	46	504

TABLE 14.—WATERFLOOD PROJECTS IN NUMERICAL ORDER AS SHOWN ON PLATE 2

No.	Oil pool	Operator	Project
	Bond County		
000	Old Ripley	Cahill & Smith	Ripley
001†	Beaver Creek	Conrey & Conrey	Wrone Lse
002	Woburn C.	Arrow	—
003	Sorento C.	Joe Simpkins	—
	Christian County		
100	Assumption C.	Continental	Benoist
101	Assumption C.	Continental	Devonian
102	Assumption C.	Continental	Rosiclare
	Clark County		
200	Casey	F. A. Bridge	States Oil
201	Casey	Forest	Casey
202	Casey	D. W. Franchot	N. Casey
203	Johnson N.	Bass & Hamman	N. Johnson
204	Johnson N.	C. L. McMahon	Block "B"
205	Johnson N.	C. L. McMahon	Block "B"
206	Johnson N.	Oldfield	V. Jones
207	Johnson N.	Pure	N. Johnson
208	Johnson N.	Tidewater	Clark #1
209	Johnson S.	Forest	S. Johnson
210	Johnson S.	Pure	Johnson Ext. #1
211	Johnson S.	Pure	Johnson Ext. #2
212	Johnson S.	Pure	Pure-Kewanee
213	Johnson S.	Pure	Weaver-Bennett
214	Martinsville	Froderman & Connelly	Froderman & Connelly
215	Siggins	General Operations	Siggins
216	Siggins	Pure	Union Group
217*	Casey	Calvan American	Shawver
218*	Martinsville	J. B. Buchman	—
219*	Martinsville	Magnolia	Carper
220*	Martinsville	Magnolia	Casey
221*	Westfield	Ree	Hawkins
222*	Westfield	Forest	Parker
	Clay County		
300	Clay City C.	Calvert	N. Clay City U.
301	Clay City C.	Phillips	Minnie Lse
302	Clay City C.	Pure	Banker School
303	Iola C.	Tidewater	Cora Davis
304	Iola C.	Tidewater	Dee & Heirs
305	Kenner	Texas	Kenner U.
306	Kenner W.	Phillips	W. Kenner
307	Oskaloosa	Texas	Oskaloosa
308	Passport	Magnolia	Stanley et al.
309	Sailor Springs C.	Cities Service	Wyatt
310	Sailor Springs C.	Gulf	R. Keck
311	Sailor Springs C.	Magnolia	Sailor Springs U.
312	Sailor Springs C.	W. C. McBride	Goldsby-Dickey
313	Sailor Springs C.	W. C. McBride	Duff-Keck
314	Sailor Springs C.	Phillips	Bothwell
315	Sailor Springs C.	Shulman	Colclasure
316	Sailor Springs C.	Shulman	Neff
317	Stanford S.	Gulf	S. Stanford
318	Sailor Springs C.	Ashland	E. Flora
319	Sailor Springs C.	Breur & Currin	—
320	Ingraham	Carter	Ingraham
321	Iola C.	Carter	Iola
322	Iola C.	Texas	Iola Coop
323	Iola C.	Texas	Iola Coop
324	Kenner N.	Ind. Farm Bureau	Theobald
325	Iola C.	Tidewater	L. Moss "A"
326	Iola C.	Tidewater	M. J. Reed
327	Passport	Shakespeare	Passport U.
328	Sailor Springs C.	Ashland	Sailor Springs
329	Sailor Springs C.	Skiles	N. Sailor Springs
	Clinton County		
400	Bartelso	T. R. Kerwin	Belle Oil
401	Bartelso	Robben Oil	Robben U.
402	Bartelso	H. S. Woodard	H. S. Woodard
403	Centralia	Morgan	Centralia Field
404	Centralia	Shell	Centralia
405†	Beaver Creek S.	Conrey & Conrey	Kneier-Ragland
406†	Germantown E.	NAP Co.	Germantown
407†	Carlyle N.	Conrey & Conrey	Krietemeyer
408*	Centralia	Sohio	Clinton
	Coles County		
500	Mattoon	Carter	Mattoon
501	Mattoon	Nokill	Mattoon
502	Westfield	General Operations	Johnson
	Crawford County		
600	Bellair	Forest	Bellair
601	Bellair	Pure	Fulton
602	Main C.	Ashland	Birds #1
603	Main C.	Ashland	Birds #2
604	Main C.	Bell Bros.	Barrick
605	Main C.	Calvan American	Bishop
606	Main C.	Forest	Grogan
607	Main C.	Calvan American	Mitchell
608	Main C.	W. Duncan	Tohill-Hughes-Robinson
609	Main C.	E. Constantin	J. S. Kirk
610	Main C.	E. Constantin	Smith
611	Main C.	Forest	Oblong
612	Main C.	D. W. Franchot	Birds
613	Main C.	General Operations	Culver
614	Main C.	General Operations	Little John
615	Main C.	G. M. J.	Porterville
616	Main C.	Hardinville	Tohill & Hughes
617	Main C.	Kewanee	Wright
618	Main C.	A. J. Leverton	Stanfield
619	Main C.	Logan	Alexander-Reynolds
620	Main C.	Mahutska	Oil Center
621	Main C.	Mahutska	—
622	Main C.	Mahutska	—
623, 646 thru 658, 673 thru 678	Main C.	Ohio	20 Projects
624	Main C.	Partlow & Cochonour	Rich
625	Main C.	F. T. Whitting-hill	D. I. M.
626	Main C.	E. C. Reeves	Billingsley
627	Main C.	Shakespeare	McIntosh U.
628	Main C.	Shakespeare	Montgomery U.
629	Main C.	Tidewater	Clark-Hulse
630	Main C.	Tidewater	Birch #1
631	Main C.	Tidewater	Birds Area
632	Main C.	Tidewater	Barrick-Walters
633	Main C.	Tidewater	Good
634	Main C.	Tidewater	W. A. Howard
635	Main C.	Tidewater	Ames
636	Main C.	Tidewater	Dennis-Hardin
637	Main C.	Tidewater	G. L. Thompson
638	Main C.	Tidewater	Henry-Ickmire
639	Main C.	Tidewater	Lefever-Musgrave
640	Main C.	Tidewater	Montgomery-Seitzinger
641	Main C.	Tidewater	Stifle-Drake
642	Main C.	Tidewater	Stahl-Walters
643	Main C.	Wilson	Hughes-Walker
644	Main C.	Wiser	H. J. Musgrave
645	Main C.	Wyman	—
646	Main C.	Ohio	See 623
647	Main C.	Ohio	See 623
648	Main C.	Ohio	See 623
649	Main C.	Ohio	See 623
650	Main C.	Ohio	See 623
651	Main C.	Ohio	See 623
652	Main C.	Ohio	See 623
653	Main C.	Ohio	See 623
654	Main C.	Ohio	See 623
655	Main C.	Ohio	See 623
656	Main C.	Ohio	See 623
657	Main C.	Ohio	See 623
658	Main C.	Ohio	See 623
659	Main C.	G. C. Schoonmaker	Sanders
660	Main C.	General Operations	Culver Ext.

*Abandoned. **Abandoned; later reinstated as an active flood. †Pressure maintenance.

TABLE 14.—(Continued)

No.	Oil pool	Operator	Project
	Crawford County—(Continued)		
661*	Main C.	Skiles	Correll-Curley
662*	Main C.	Petroleum Products Co.	—
663*	Main C.	Ree	Meserve
664*	Main C.	Skiles	Walter-Comm.
665*	Main C.	Skiles	Weger
666	Bellair	Wausau	Grant Flood
667	Main C.	Adams	H. J. Adams W. F.
668	Main C.	Tidewater	Highsmith
669	Main C.	Forest	Oblong-Flood 3
670	Main C.	Forest	Stifle U.
671	Main C.	MacDonnell	Kirtland Area W. F.
672	Main C.	MacDonnell	Kirtland Area W. F.
673	Main C.	Ohio	See 623
674	Main C.	Ohio	See 623
675	Main C.	Ohio	See 623
676	Main C.	Ohio	See 623
677	Main C.	Ohio	See 623
678	Main C.	Ohio	See 623
679*	Main C.	Wausau	Highsmith
	Cumberland County		
700	Siggins	Bell Bros.	Flood #1
701*	Siggins	C. R. Cochonour	Vevay Park
702	Siggins	Forest	Siggins
703	York	Trans-Southern	York
704	Lillyville	Ind. Farm Bureau	Krogman
	Douglas County		
800	Bourbon C.	M. H. Richardson	—
	Edwards County		
1000	Albion C.	Bristol	Biehl U. #2
1001	Albion C.	Calvert	S. Albion
1002	Albion C.	Jarvis Bros. & Marcell	H. Wick
1003	Albion C.	Superior	S. Albion S.R.P. #1
1004	Albion C.	Superior	S. Albion #2
1005	Albion C.	Superior	S. Albion #2
1006	Albion C.	Tidewater	S. W. Albion Biehl Sand U.
1007	Ellery E.	Herndon	—
1008	Maple Grove C.	Ashland	Bennington
1009	Maple Grove C.	Investment Oil	Graede & Miller
1010	Samsville N.	Ashland	W. Salem
1011†	Albion C.	Calvert	S. Albion L. Biehl
1012**	Albion C.	Superior	S. Albion U. #2
1013†	Bone Gap C.	Gallagher	Bone Gap
1014*	Albion C.	Continental	Stafford
1015*	Albion C.	First Natl. Pet. Trust	Brown
1016	New Harmony C.	Skiles	Siegert Bottoms
	Effingham County		
1100	Sailor Springs C.	Ashland	Bible Grove
1101	Hill E.	Partlow & Cochonour	Cypress
1102	Sailor Springs C.	W. Duncan	Brink
1103	Sailor Springs C.	Kingwood	Nadler
1104	Mason N.	Texas	Mason North
	Fayette County		
1200	Louden	J. P. Babcock	Rhodes & McCloy
1201	Louden	W. L. Belden	Hinton
1202	Louden	W. L. Belden	Unit 25
1203	Louden	Burtschi	D. L. Burtschi
1204	Louden	Carter	Louden
1205	Louden	Doran	Stewart & Dial
1206	Louden	General American	Devore Coop.
1207	Louden	Jarvis Bros. & Marcell	Homan
1208	Louden	Jarvis & Marcell	Yakey
1209	Louden	B. Kidd	Louden
1210	Louden	Kingwood	Yolton
1211	Louden	Kingwood	Yolton
1212	Louden	J. A. Lewis Eng.	Louden Ext.
1213	Louden	J. J. Lynn Estate	E. C. Smith
1214	Louden	Mabee	Louden
1215	Louden	Mabee	Louden
1216	Louden	Magnolia	Rhodes-Watson Coop.
1217	Louden	W. C. McBride	Stokes Weiler
1218	Louden	Shell	N. Louden U.
1219	Louden	Shell	S. Louden U.
1220	Louden	R. H. Troop	Durbin Area
1221	Louden	R. H. Troop	Hiatt U.
1222	St. James	H. Rosenthal	Washburn
1223†	Louden	Carter	Louden Devonian
1224	Louden	Magnolia	Louden
	Franklin County		
1300	Benton	Shell	Benton U.
1301	W. Frankfort C.	Shell	W. Frankfort Unit
1302	Thompsonville E.	Carter	E. Thompsonville
1303	Thompsonville N.	Carter	N. Thompsonville
1304	Thompsonville N.	J. & W.	N. Thompsonville U.
1305	Thompsonville N.	J. & W.	Thompsonville U.
1306	Sesser C.	Lewis	Sesser W. F. U.
	Gallatin County		
1400	Inman W. C.	Ferral	—
1401	Inman W. C.	Gallagher	Bradley U.
1402	Inman W. C.	Gulf	W. Inman U.
1403	Inman W. C.	Gulf	W. Inman U.
1404	Inman W. C.	Phillips	Levert
1405	Herald C.	Calvert	Cottonwood N.
1406	Inman E. C.	Carter	Big Barn
1407	Inman E. C.	Carter	Kerwin-Crawford
1408	Inman E. C.	Carter	West U.
1409	Inman E. C.	Natural Resources	Big Barn
1410	Inman E. C.	Natural Resources	Big Barn
1411	Inman E. C.	Sun	Inman East
1412	Junction	Lewis	Junction
1413	Roland C.	Ind. Farm Bureau	Omaha
1414†	Omaha	Carter	Omaha
1415	Inman W. C.	Skiles	Lawler Flood
	Hamilton County		
1500	Bungay C.	Texas	Blairsville U.
1501	Dale C.	Inland Producers	N. Rural Hill U.
1502	Dale C.	Phillips	Cantrell U.
1503	Dale C.	Phillips	West End U.
1504	Dale C.	Texas	W. Dale U.
1505	Mill Shoals	B. Kidd	Gardner
1506	Mill Shoals	Sohio	B. R. Gray
1507	Dale C.	Stewart	Bill Jones
1508	Dale C.	Texas	C. W. Hood
1509	Dale C.	Texas	C. W. Hood
	Jasper County		
1900	Clay City C.	Ashland	Boos E.
1901	Clay City C.	Robinson & Puckett	N. E. McCl. #1
1902	Clay City C.	Robinson & Puckett	S. W. McCl. #2
1903	Olney C.	Gulf	Bessie Lse
1904	Olney C.	Sohio	Dundas E.
1905	Ste. Marie	J. R. Randolph	Ste. Marie
1906	Willow Hill E.	Pure	Willow Hill U
1907*	Willow Hill E.	M. M. Spickler	—
1908	Clay City C.	Zanetis	P. Kelley #3
1909	Clay City C.	Zanetis	C. Harvey #2
	Jefferson County		
2000	Boyd	Superior	Boyd U.
2001	Boyd	Superior	Boyd U.
2002	Divide E.	Gulf	Halloway
2003*	Markham City	Tidewater	Newton
2004	Markham City W.	Gulf	Markham City W.
2005†	Boyd	Superior	Boyd Repressure
2006†	Salem C.	Carter	Dix (R. & P.M.)
2007*	Markham City	Tidewater	Newton Investment Co.

*Abandoned. **Abandoned; later reinstated as an active flood. †Pressure maintenance.

TABLE 14.—(Continued)

No.	Oil pool	Operator	Project
		Lawrence County	
2200*	Lawrence	Calvan American	Piper
2201	Lawrence	Baldwin & Baldwin	—
2202	Lawrence	Bradley	C. M. Perkins
2203	Lawrence	Bradley	C. M. Perkins
2204	Lawrence	Dearborn	Applegate
2205	Lawrence	W. Duncan	L. C. David
2206	Lawrence	T. W. George	Klondike
2207	Lawrence	Tekoil	Gray
2208	Lawrence	W. C. McBride	Crump "40"
2209	Lawrence	W. C. McBride	Crump-Fyffe
2210	Lawrence	W. C. McBride	Neal
2211	Lawrence	Murphy	Stoltz
2212	Lawrence	Murphy	Stoltz
2213, 2215, 2219 thru 2223, 2239	Lawrence	Ohio	8 Projects
2214, 2224 thru 2228, 2238	Lawrence	Ohio	7 Projects
2215	Lawrence	Ohio	See 2213
2216	Lawrence	Ohio	Gillespie
2217	Lawrence	Shakespeare	S. Bridgeport U.
2218	St. Francisville E.	J. E. Bauer	All States Life
2219	Lawrence	Ohio	See 2213
2220	Lawrence	Ohio	See 2213
2221	Lawrence	Ohio	See 2213
2222	Lawrence	Ohio	See 2213
2223	Lawrence	Ohio	See 2213
2224	Lawrence	Ohio	See 2214
2225	Lawrence	Ohio	See 2214
2226	Lawrence	Ohio	See 2214
2227	Lawrence	Ohio	See 2214
2228	Lawrence	Ohio	See 2214
2229*	Lawrence	Calvan American	Waller
2230*	Lawrence	Ree	Snyder
2231	Allendale	Illinois Oil	Sand Barren Lse U. 1
2232	Allendale	Sand Barren Lses	Sand Barrens U. 2
2233	Lawrence	Bradley	Pepple
2234	Lawrence	Bradley	Laura Gillespie
2235	Lawrence	Bradley	Laura Gillespie
2236	Lawrence	Bradley	Laura Gillespie
2237	Lawrence	Curts	Stoltz Heirs
2238	Lawrence	Ohio	See 2214
2239	Lawrence	Ohio	See 2213
2240	Lawrence	D. S. Huddleston	Vandermark-Albrecht W.F.
		Madison County	
2500	Livingston	W. H. Krohn	—
2501	Livingston	Cahill & Smith	C. & O. Henke
		Marion County	
2600	Odin	Ashland	Odin
2601	Patoka	Sohio	Patoka Benoist
2602	Patoka	Sohio	Patoka Rosiclare
2603	Patoka	Sohio	Stein U.
2604	Salem C.	Texas	Rosiclare Sand U.
2605	Salem C.	Texas	Salem U.
2606	Salem C.	Texas	Salem U.
2607	Salem C.	Texas	Salem U.
2608	Salem C.	Texas	Salem U.
2609	Tonti S.	Tamarack	Branch
2610	Wamac	D. Stinson	Wamac
2611	Wamac	Wamac	Wamac
		Richland County	
3400	Calhoun C.	Ashland	Calhoun
3401	Calhoun C.	Phillips	Bohlander U.
3402	Clay City C.	Ashland	Noble N.
3403	Clay City C.	Calvert	E. Noble U.
3404	Clay City C.	Pure	Old Noble
3405	Clay City C.	Pure	S. Noble
3406	Clay City C.	Pure	S. W. Noble
3407	Olney C.	Gulf	E. Dundas U.
3408	Olney C.	Texas	E. Olney
3409	Parkersburg C.	Ohio	Parkersburg U.
3410	Seminary	R. Johnson	Seminary
3411	Stringtown	N. C. Davies	Stringtown
3412	Stringtown	Helmerich & Payne	Stringtown
3413	Stringtown	Skelly	Stringtown
3414	Stringtown	Murvin & Steber	—
3415*	Parkersburg C.	Calvert	Parkersburg
3416	Clay City C. (Noble)	Ohio	Noble Coop. (See 3409)
		Saline County	
3600	Harco	Phillips	Noble "A"
		Wabash County	
3900	Allendale	Bass & Hamman	Gilliate
3901	Allendale	Bass & Hamman	White
3902	Allendale	Bass & Hamman	—
3903	Allendale	Coon Creek	Taylor-Wheatley
3904	Allendale	Tamarack	Patton
3905	Allendale	Forest	Allendale
3906	Allendale	T. W. George	—
3907	New Harmony C.	T. W. George	E. Maud
3908	Allendale	Illinois Oil	Shaw-Smith-Nigh
3909	Allendale	B. Kidd	Allendale
3910	Allendale	Mattaland	D. F. Mattaland et al.
3911	Allendale	Westfall	—
3912	Browns E.	T. W. George	Bellmont
3913	Browns E.	Magnolia	Bellmont
3914	Browns E.	Magnolia	S. Bellmont
3915	Keensburg S.	Vickery Drlg.	A. P. Garst
3916	Lancaster S.	Ashland	Lancaster S.
3917	Mt. Carmel	G. S. Engle	G. Dunkel
3918	Mt. Carmel	First Natl. Pet. Trust	Wabash U.
3919	Mt. Carmel	T. W. George	N. Mt. Carmel
3920	Mt. Carmel	T. W. George	—
3921	Mt. Carmel	O'Mera Bros.	—
3922	Mt. Carmel	Shell	Mt. Carmel
3923	Mt. Carmel	Skiles	Chapman-Courter
3924	Mt. Carmel	Skiles	W. Mt. Carmel
3925	Mt. Carmel	Texas	Stein
3926	New Harmony C.	Ashland	Maud N.
3927	New Harmony C.	Ashland	Ravenstein
3928	New Harmony C.	Cities Service	Brines U.
3929	New Harmony C.	Phillips	Shultz Lse
3930	New Harmony C.	Phillips	Shultz Lse
3931	New Harmony C.	Skiles	Siegert Bottoms
3932	New Harmony C.	Skiles	E. Maud
3933	New Harmony C.	Skiles	E. Maud
3934	New Harmony C.	Skiles	W. Maud
3935	New Harmony C.	Sohio	Griffin N.
3936	New Harmony C.	Luboil	Helm
3937	New Harmony C.	Luboil	Helm
3938	New Harmony C.	Luboil	Helm
3939	New Harmony C.	Luboil	Helm
3940	New Harmony C.	Luboil	Helm
3941*	Mt. Carmel	First Natl. Pet. Trust	Shaw Courter
3942*	Berryville C.	Phillips	Tarply
3943*	Berryville C.	Phillips	Townsend
3944*	Allendale	Ind. Farm Bureau	Woods
3945*	Friendsville N.	Magnolia	J. L. Litherland
3946*	Mt. Carmel	First Natl. Pet. Trust	Shaw Courter
3947	New Harmony C.	T. W. George	E. Maud
3948	New Harmony C.	Swan	—
3949	New Harmony C.	West	C. W. Raber
3950	Allendale	Ashland	Allendale
3951	Allendale	L & M Drlg.	Allendale West U. W.F.
3952	Allendale	L & M Drlg.	Stanley Price W.F.
3953	Friendsville N.	Sanders	Friendsville N.
3954	Lancaster	Hayes-Wolf Bros.	Lancaster W. F.
3955	New Harmony C.	Ind. Farm Bureau	Landis-Goins
3956	New Harmony C.	Skiles	—
3957	New Harmony C.	Skiles	—
3958†	Mt. Carmel	T. W. George	Dunkel-Johnson
3959†	New Harmony C.	T. W. George	Keensburg U.

*Abandoned. **Abandoned; later reinstated as an active flood. †Pressure maintenance.

TABLE 14.—(Continued)

No.	Oil pool	Operator	Project
	Washington County		
4000	Cordes	Shell	Cordes Coop.
4001	Irvington	Kapp	Molting Field
4002	Irvington	Mazzarino	Kasten
	Wayne County		
4100	Aden C.	Horton	—
4101	Aden C.	Texas	Aden
4102	Aden C.	Texas	Aden
4103	Barnhill	Ashland	Barnhill
4104	Barnhill	Willets & Paul	Simpson
4105	Barnhill	Willets & Paul	Simpson
4106	Barnhill	Willets & Paul	Simpson
4107	Clay City C.	Calvert	Wilson
4108	Clay City C.	Tamarack	—
4109	Clay City C.	F. & W.	Miller-Lambrich
4110	Clay City C.	General American	Covington U.
4111	Clay City C.	T. W. George	—
4112	Clay City C.	Pure	Jordan School
4113	Clay City C.	Pure	N. E. Jordan School
4114	Clay City C.	Pure	Van Fossan U.
4115	Clay City C.	Robinson & Puckett	N. Puckett U.
4116	Clay City C.	Robinson & Puckett	S. Puckett #1
4117	Clay City C.	Shakespeare	E. Banker School
4118	Clay City C.	Shakespeare	E. Geff U.
4119	Clay City C.	Kirby	—
4120	Covington S.	General American	Heidinger-Vogel
4121	Johnsonville C.	Texas	Johnsonville U.
4122	Johnsonville C.	Texas	Johnsonville U.
4123	Goldengate C.	Cities Service	Goldengate
4124	Goldengate C.	Cities Service	Kletzker U.
4125	Keenville	Calvert	Keenville U.
4126	Keenville	W. Duncan	Keenville U.
4127	Maple Grove C.	Winmar	W. Bennington
4128*	Golden Gate C.	Cities Service	Golden Gate
4129*	Barnhill C.	Wayne Development	Walter
4130*	Clay City C.	Gulf	Winona
4131	Clay City C.	Pure	S. E. Jordan School U.
4132	Clay City C.	Texas	E. Galligher
4133	Goldengate C.	Ill. Mid. Continent	—
4134	Johnsonville C.	Pure	Crisp U.
4135	Johnsonville C.	Texas	Johnsonville U.
	White County		
4200	Albion C.	Bristol	Biehl U. #1
4201	Albion C.	Concho	N. Crossville
4202	Albion C.	Concho	N. Crossville
4203	Centerville E.	Tekoil	E. Centerville
4204	Centerville E.	Tekoil	E. Centerville
4205	Concord C.	B. Kidd	Kerwin-Concord
4206	Concord C.	Phillips	Kerwin Lse.
4207	Concord C.	Phillips	Tuley Lse.
4208	Concord N.	C. E. Brehm	Concord N.
4209	Enfield S.	Ryan	S. Enfield U. #2
4210	Herald C.	C. E. Brehm	Herald W.
4211	Herald C.	Mabee-Allen	Ackerman U.
4212	Herald C.	Q. B. Mitchell	Bayley U.
4213	Maunie S.	Magnolia	Palestine U.
4214	New Harmony C.	Arrow	—
4215	New Harmony C.	Arrow	Arrow-McBride-Hon-Bump-Crawford W.F.-4214 thru 4217
4216	New Harmony C.	Arrow	
4217	New Harmony C.	Arrow	

No.	Oil pool	Operator	Project
	White County—(Continued)		
4218	New Harmony C.	Calstar	Ford
4219	New Harmony C.	Calstar	Ford "B"
4220	New Harmony C.	Clark & Clark	Maunie N. U.
4221	New Harmony C.	Coy	—
4222*	New Harmony C.	Skiles	Smith-Davenport
4223*	New Harmony C.	Sun	Greathouse
4224	New Harmony C.	Herndon & Ashland	Calvin
4225	New Harmony C.	Herndon	Calvin
4226	New Harmony C.	Herndon	Calvin
4227	New Harmony C.	Inland	Bowman's Bend U.
4228*	Concord C.	Great Lakes Carbon	McClosky
4229*	Concord C.	Phillips	Dallas
4230*	Maunie S.	Magnolia	Tar Springs U.
4231	New Harmony C.	Sinclair	M. S. Donald
4232*	Phillipstown C.	Skiles	L. O. Cleveland
4233	New Harmony C.	Sun	Ford "B"
4234	New Harmony C.	Sun	Ford "B"
4235	New Harmony C.	Superior	Kern-Hon U.
4236	New Harmony C.	Superior	New Harmony U.
4237	New Harmony C.	Superior	New Harmony U.
4238	New Harmony C.	Superior	Waltersburg U.
4239*	Maunie S.	Magnolia	Maunie Coop.
4240	New Harmony C.	Tidewater	E. S. Dennis "A"
4241	New Harmony C.	Tidewater	Evans
4242	New Harmony C.	Tidewater	Evans
4243	New Harmony C.	Tidewater	Evans
4244	New Harmony C.	Tidewater	E. S. Dennis "A"
4245*	Phillipstown C.	C. E. Brehm	Phillipstown U. "A"
4246*	Centerville E.	Sun	E. Centerville
4247	New Haven C.	Hiawatha	New Haven
4248	New Haven C.	Hiawatha	New Haven
4249	Phillipstown C.	C. E. Brehm	Phillipstown U. "B"
4250	Phillipstown C.	Bristol	Grayville
4251	Phillipstown C.	British American	N. Calvin
4252	Phillipstown C.	Magnolia	Schmidt-Seifried
4253	Phillipstown C.	Phillips	Flora U.
4254	Phillipstown C.	Phillips	Laura
4255	Phillipstown C.	Phillips	Phillipstown U.
4256	Phillipstown C.	Sun	Phillipstown
4257	Phillipstown C.	Sun	Phillipstown
4258	Roland C.	Carter	S. W. Roland
4259	Roland C.	Carter	Stokes
4260	Roland C.	Pure	Stokes-Brownsville
4261	Roland C.	Shell	Iron U.
4262	Roland C.	T. W. George	Pankey-Morehead U.
4263	Storms C.	Sinclair	Storms U.
4264†	Enfield S.	Ryan Oil	S. Enfield U. #1
4265†	Maunie S.	NAP Co.	S. Clear Pond
4266†	Phillipstown C.	NAP Co.	Stokes "B" #3
4267*	Centerville E.	Lesh	Centerville E.
4268*	Maunie S.	Magnolia	Tar Springs U. #2
4269*	New Harmony C.	Sun	Ford "A"
4270*	Phillipstown C.	Sun	Phillipstown
4271*	Storms C.	Mabee	Storms
4272	Maunie N.	Schoonmaker	—
4273	Maunie S.	Skiles	Brown-Alford Flood
4274	New Harmony C.	Magnolia	J. J. Bond
4275	New Harmony C.	Skiles	Calvin Cons.

*Abandoned. **Abandoned; later reinstated as an active flood. †Pressure maintenance.

TABLE 15.—ILLINOIS WATERFLOOD PROJEC

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	Formation
						Gene
4100	Aden C	Horton*	Wayne	—	11–56	Aux Vases
4101	Aden C	Texas	Wayne	Aden	8–46	Aux Vases
4102	Aden C	Texas	Wayne	Aden	8–46	McClosky
4200	Albion C	Bristol*	White	Biehl U #1	8–49	U. Biehl
1000	Albion C	Bristol*	Edwards	Biehl U #2	12–50	U. Biehl
1001	Albion C	Calvert	Edwards	S. Albion	12–55	U. Biehl
4201	Albion C	Concho	White	N. Crossville U	10–52	Cypress
4202	Albion C	Concho	White	N. Crossville U	10–52	Tar Springs
1002	Albion C	Jarvis Bros. & Marcell	Edwards	H. Wick (West)	7–51	McClosky
1003	Albion C	Superior	Edwards	S. Albion S.R.P. #1	1–55	Biehl & Waltersburg
1004	Albion C	Superior	Edwards	S. Albion #2	8–56	Aux Vases
1005	Albion C	Superior	Edwards	S. Albion #2*	8–56	Biehl
1012	Albion C	Superior	Edwards	S. Albion #2	7–46	Bridgeport
1006	Albion C	Tidewater	Edwards	S. W. Albion Biehl Sand U	5–56	Biehl
3950	Allendale	Ashland	Wabash	Allendale	9–55	Biehl
3900	Allendale	W. H. Bass*	Wabash	Gilliate	11–54	Biehl
3901	Allendale	W. H. Bass*	Wabash	White	6–52	Biehl
3902	Allendale	W. H. Bass*	Wabash			Biehl
3903	Allendale	Coon Creek	Wabash	Taylor Wheatley U	6–57	Jordan & Biehl
3905	Allendale	Forest	Wabash	Allendale	6–55	Biehl & Jordan
3906	Allendale	T. W. George	Wabash	Young		Biehl
3908	Allendale	Ill. Oil	Lawrence & Wabash	Shaw-Smith 2 projects	10–57	Biehl & Jordan
2231	Allendale	Ill. Oil	Wabash	Sand Barren Leases U	9–57	Jordan & Biehl
3909	Allendale	Barron Kidd	Wabash	Allendale	9–53	Biehl & Jordan
3952	Allendale	L & M Drilling	Wabash	Price Waterflood	11–54	Biehl
3951	Allendale	L & M Drilling	Wabash	Allendale West Unit	4–58	Biehl
3910	Allendale	Mattaland*	Wabash	D. F. Mattaland	6–52	Biehl
2232	Allendale	Sand Barren Leases	Lawrence	Sand Barren #2	6–58	Biehl-Jordan
3904	Allendale	Tamarack*	Wabash	Patton	54	Cypress
3911	Allendale	Westfall*	Wabash			Biehl
100	Assumption C	Continental	Christian	Benoist	7–50	Benoist
101	Assumption C	Continental	Christian	Devonian	5–55	Devonian
102	Assumption C	Continental	Christian	Rosiclare	6–55	Rosiclare
4103	Barnhill	Ashland	Wayne	Barnhill	1–51	McClosky
4104	Barnhill	Willetts & Paul*	Wayne	Simpson	10–56	Aux Vases
4105	Barnhill	Willetts & Paul*	Wayne	Simpson U	10–56	Ohara
4106	Barnhill	Willetts & Paul*	Wayne	Simpson U	9–57	Rosiclare
400	Bartelso	T. R. Kerwin	Clinton	Belle Oil	4–52	Cypress
401	Bartelso	Robben Oil	Clinton	Robben U	11–53	Cypress
402	Bartelso	H. S. Woodard	Clinton	H. S. Woodard	1–54	Cypress
600	Bellair	Forest	Crawford	Bellair	7–48	Bellair "500"
601	Bellair	Pure	Crawford	Fulton	7–48	Bellair "500"
666	Bellair	Wausau	Crawford	Grant	2–53	Robinson
1300	Benton	Shell	Franklin	Benton U	11–49	Tar Springs
2000	Boyd	Superior	Jefferson	Boyd U	8–54	Aux Vases
2001	Boyd	Superior	Jefferson	Boyd U	1–55*	Benoist
800	Bourbon	M. H. Richardson*	Douglas	—	—	Rosiclare
3912	Browns E	T. W. George	Wabash	Bellmont*	1–51	Cypress
3913	Browns E	Magnolia	Wabash	Bellmont	11–47	Cypress
3914	Browns E	Magnolia	Wabash	S. Bellmont	4–56	Cypress
1500	Bungay C	Texas	Hamilton	Blairsville U	6–48	Aux Vases
3400	Calhoun C	Ashland	Richland	Calhoun*	9–51	McClosky
3401	Calhoun C	Phillips	Richland	Bohlander U	6–50	McClosky
200	Casey	F. A. Bridge*	Clark	States Oil	1–54	Casey
201	Casey	Forest	Clark	Casey	3–50	Casey
202	Casey	D. W. Franchot	Clark	N. Casey	12–53	Casey
4203	Centerville E	Tekoil	White	E. Centerville	3–56	Cypress
4204	Centerville E	Tekoil	White	E. Centerville	5–56	Tar Springs
403	Centralia	Morgan	Clinton	Centralia Field	10–55	Benoist

Reported Operating During 1958

Information				Production and injection statistics (thousand bbls.)						
				Secondary recovery						
Location		Curtailed during '58		Water injection		Oil production		Water production		Map No.
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	
4	2S– 7E									4100
, 9, 16, 17, 20	3S– 7E			513	4,040	39.8	775	1,066*	4,235*	4101
, 9, 16, 17, 20	3S– 7E			736	4,533	33.9	507	*	*	4102
2, 23	3S–10E			634	4,666	50.2	1,107†	201	713‡	4200
3	3S–10E			358	2,742	21.8	531†	264	883‡	1000
, 2	3S–10E			249	566	107.2	213*	78	131	1001
6, 27, 34, 35	3S–10E			602	3,620	23.1	313	267	1,270	4201
6, 27, 34, 35	3S–10E			178	868	4.9	58	12	69	4202
4	2S–10E			63	302*	11.4	13	63	63	1002
25, 36	2S–10E⎫			304	1,591	114.8	459	127	552	1003
30, 31	2S–11E⎭									
, 2, 11, 12	3S–10E			146	397	185.4*	284*†	386	944*†	1004
, 2, 11, 12	3S–10E			331	714	†	†	†	†	1005
, 2, 11, 12	3S–10E			101	2,304	*	†	*	*	1012
, 11, 14	3S–10E			710	2,101	258.2	637*	419	832	1006
3	1N–12W			56	141	9.1	146.3*			3950
3	1N–12W									3900
2	1N–12W									3901
	1N–11W									3902
	1N–12W			79	120	40.5	61		18	3903
, 4, 9, 10	1N–12W			3,248	12,045	231.4	822*			3905
36	2N–12W⎫				373		27			3906
1	1N–12W⎭									
3, 26, 35	2N–12W	x	x	117	143	32.0	86	64*	64*	3908
6	2N–12W			130	142	21.2	23	6	6	2231
	1N–12W			432	2,192	16.9	165	295	1,328	3909
9	1N–12W			177	707	12.6	160	168		3952
	1N–12W			147	147	16.6	17	6	6	3951
5	1N–12W									3910
3-26	2N–12W			24	24	1.1	1	0	0	2232
8	1N–12W	x	x	144†		7.2†		72†		3904
9	1N–12W									3911
3, 4, 9, 10, 15, 16, 21	13N– 1E⎫			418	6,148	78.4	1,041*	191	1,948	100
	13N– 1E⎭			480	1,163	58.8	125	61	88	101
, 10	13N– 1E			68	264	73.9	208	75	173	102
6, 34, 35	2S– 8E			845*	5,659	49.9	1,022			4103
7	2S– 8E	x		79	140	21.3	46†	52	55	4104
7	2S– 8E			†	†	‡	‡	‡	‡	4105
7	2S– 8E			143	207†	‡	‡	‡	‡	4106
	1N– 3W			100	810	6.0	124*	31	81†	400
	1N– 3W			517	2,207	48.6	563*	299	897	401
, 8	1N– 3W			259	1,227	32.6	240*	282	825	402
, 11, 12	8N–14W			1,534	17,237	35.8	619			600
, 2, 11, 12	8N–14W			3,698	39,909	69.0	1,102	2,113	17,229	601
3	8N–14W			135	1,053	9.7	148*	130	130	666
23-26, 35, 36	6S– 2E⎫			10,399	95,380	589.7	13,667	9,483	54,119	1300
18, 30, 31	6S– 3E⎭									
18, 19, 20, 30	1S– 2E⎫			1,273	14,957	*	*	*	*	2000
13, 24, 25	1S– 3E⎭									
18, 19, 20, 30	1S– 2E⎫			4,883	18,705	236.0	1,084†	4,005	13,235†	2001
13, 24, 25	1S– 3E⎭									
, 11, 12	15N– 7E									800
, 2, 11, 12	2S–14W									3912
, 11	2S–14W			21	822	9.0	571*	11	263	3913
1, 14	2S–14W			210	578	62.0	141*	110	134	3914
6, 17, 20, 21	4S– 7E			937	6,663	37.2	627	314	1,292*	1500
, 18, 13	2N–9 & 10E			274	1,536	15.1	123†			3400
, 7	2N–10E			214	2,158	10.2	235	201	1,664	3401
6	10N–14W									200
4, 15, 23	10N–14W			875	6,716	27.8	391			201
4	10N–14W⎫			164	953			0	0	202
33	11N–14W⎭									
8	4S–10E			155	544	17.3	79*	118		4203
8	4S–10E			183	448	38.9	112	118		4204
5	2N– 1W			36	36	0.3	0.3			403

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
4100										
4101	13	17	Perimeter		640	1,050	Penn. Sd & Prod	B	10.8	1,400
4102	12	19	Perimeter		560	920	Penn. Sd & Prod	B	46.7	1,400
4200	2	10	Flank		172		River & Prod	F	51.1	1,280
1000	2	5	Flank		68.4		Well & Prod	F & B	22.3	1,220
1001	2	6	Perimeter	10	110	130	Penn. Sd	B	19.0	
4201	8	21	Perimeter	10	250	300			17.2	1,600
4202	4	5	5-Spot	10	100	100			20.4	1,550
1002	1	6			140	140		B	5.7	280
1003	6	17	Flank		325 222	325 222	Gr & Prod	F & B	7.2	1,180
1004	6	12	5-Spot	20	243	283	Gr Bed & Prod	F & B	6.7	1,410
1005	3	4	Irregular	20	79	79	Gr Bed & Prod	F & B	19.1	778
1012	2	7	Mod. flank		257	257	Gr & Prod		11.3	
1006	18	18	5-Spot	20	710	710	Prod & Gr	F & B	6.8	800
3950	1	7	Irregular		20	20	Penn.	B	10.3	280
3900			Perimeter							
3901										
3902										
3903	3	6	Irregular		24	60	Penn. Sd	B	4.8	300
3905	29	18	Mod. 5-Spot	25	300		Gr & Prod	F & B	1.7	840
3906	8	10								700
3908	2	5			20	30		F	9.4	800-1000
2231	10	7			40	60		F	1.4	800
3909	2*	3*	Irregular	20	70	75	Sd		18.5	
3952	1	3	Irregular		40	40	Fresh water & prod	F & B	24.2	690
3951	1	6	Irregular		60	60	Fresh water	F	21.8	50
3910										
2232	3	10			15	65		F	1.9	690
3904	2	2	5-Spot	20	40	200	River & Prod	F & B	1.6	550
3911										
100	19	19	Perimeter	10	350	410	Purchased & Prod	F & B	4.6	800
101	11*	28*	Line Drive	20	600	800	Purchased & Prod	F & B	9.2	175
102	1	7	Line Drive	10	158	158	Purchased & Prod	F & B	15.5	300
4103	10	13	Irregular		260	320	Cypress	B	25.7	
4104	3	17	Mod. Split Line		230	230	Water Well & Prod	F & B	5.1	
4105	2	6	None					F & B		
4106	3	4	None					F & B	26.1	250
400	5	5	5-Spot	5	40	40	Tar Springs	B	3.6	550
401	12	19	5-Spot	10	200	200	Bethel	B	9.8	550
402	7	9	5-Spot	10	80	80	Bethel & Prod	B	6.3	550
600	56	51	5-Spot	4.4	200		Gr	F	2.0	285
601	120	89	5-Spot	4.4	443	493	Gr	F	4.0	280
666	15	11	5-Spot	4	70	100	Penn. Sd & Gr	F & B	1.5	555
1300	109	120	5-Spot	20	2,200	2,200	Lake & Prod	F & B	7.5	465
2000	11	*	Peripheral		569	569	Lake & Prod	F & B	26.6	490
2001	8	56	Peripheral		1,564	1,564	Lake & Prod	F & B	96.8	800
800										
3912										
3913	3	5	Line Dr	10	168	190	Prod & Tar Springs	B		
3914	5	8	5-Spot	20	75	127	Prod & Penn.	F & B		
1500	12	8		20	640	710	Penn. & Prod	B	13.8	1,318
3400	3	6	Irregular		140	195	Cypress	B	41.7	
3401	3	6	Irregular	20	160	280	Prod	B	19.5	1,050
200										
201	76	67	5-Spot	4.4	280		Gr Bed & Prod	F & B	3.2	300
202	15	11	5-Spot	4.4	40	560	Gr	F	1.5	150
4203	5	18	5-Spot	10	288	288	Palestine	B	5.7	1,460
4204	3	15	5-Spot	10	214	214	Palestine	B	21.0	1,200
403	1	7		1	40	40	Benoist & Cypress	B	7.2	0

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
						*No data 1957–58.	4100
3,200	10.0	22.0	150	34.0–40.3		*Includes Aden McClosky water production.	4101
3,350	3.6			34.0–40.3	6.5 @ 100°F	*Water prod. included with Aden Aux Vases flood.	4102
1,950	17.0	20.2	265	38.0	5.3 @ 90°F	*Previously operated by S. C. Yingling. †Includes primary production since start of flood. ‡Since 1-1-55.	4200
1,450	22.0	19.3	303	35.8	6.0 @ 84°F	*††Same as above.	1000
2,075	18.0	20.0	200	33.4		*Includes primary production since 12-55.	1001
2,850	12.0	18.0		37.0			4201
2,460	6.0	18.0		37.0			4202
3,150	30.0			37.0		*Excluding 1–55 to 12–56.	1002
2,025	7.1	18.6	807	36.0	5.4 @ 85°F		1003
2,400	12.3	18.5	74		4.7 @ 90°F		
2,550	10.0	20.6	53	37.5	4.3 @ 98°F	*Includes Biehl. †Includes in Biehl 8-1-56 to 12-31-57.	1004
1,485	15.8	18.2	326	37.3	4.5 @ 84°F	*Previously abandoned. †Included with Aux Vases.	1005
1,360	12.2	20.2	323	35.7	5.5 @ 83°F	*Included in Biehl. †Included in Aux Vases.	1012
1,850	16.0	18.0	150	32.2		*Includes primary production since 5-56.	1006
1,475	15.0			36.0		*Includes primary production since 9-55.	3950
1,490	17.0					*No data 1957–58.	3900
						*No data 1957–58.	3901
						*No data 1957–58.	3902
1,500	15.0	17.0	300				3903
1,500	15.0	17.7	390	37.0	12.3 @ 60°F	*Includes primary production since start of flood.	3905
	13.0	14.9	100				
							3906
1,360	17.0					*Estimate.	3908
1,300	26.0						2231
1,490	32.0	16.5	600	37.0	7.6 @ 79°F	*Shutin one producer and one injection well.	3909
1,520	20.0	18.0	450	33.0			3952
1,500	25.0	19.0	450	32.0			3951
						*No data 1957–1958.	3910
1,300	20.0						2232
1,800	12.0					*Formerly owned by G. S. Engle. †Estimated.	3904
						*No data 1957–58.	3911
1,050	13.0	19.0	100	38.0		*Corrected to 1957 value.	100
2,300	13.0	12.0	50	40.0	1.8 @ 88°F	*Project expanded from pilot flood 3-58.	101
1,150	12.0	22.0	561	39.3	2.6 @ 78°F		102
3,350	9.0			39.0		*Controlled dump flood.	4103
3,253	14.0	18.7	42	38.0	7.0 @ 85°F	*Formerly owned by Wausau. †Includes Ohara & Rosiclare oil; includes primary production since start of flood.	4104
3,323	8.0	20.1	108	39.0		*Formerly owned by Wausau. †Included in Rosiclare. ‡Included with Aux Vases.	4105
3,365	5.0			40.0	6.0 @ 78°F	*Formerly owned by Wausau. †Includes Ohara injection. ‡See Aux Vases.	4106
971	15.0	22.2	165	37.0	6.3 @ 71°F	*Includes primary production since 4-52. †Since 1-1-57.	400
980	12.0	20.0	110	36.9	6.3 @ 71°F	*Includes primary production since 11-53.	401
920	16.0	21.0	210	39.0		*Includes primary production since 7-48.	402
550	38.0	17.1	148	32.4	16.0 @ 77°F	Previously subjected to gas injection.	600
560	21.0	18.6	149	32.0	18.7 @ 77°F	Previously subjected to gas injection.	601
950	16.0	17.2	125	38.0	8.0 @ 70°F	*Includes primary production since start of flood.	666
2,100	35.0	19.0	65	40.4	3.5 @ 86°F		1300
2,130	11.9	21.4	240	36.8	4.4 @ 90°F	Previously used for gas storage. *Included with Benoist.	2000
2,065	17.3	17.5	173	39.5	3.2 @ 90°F	*Pressure maintenance 6-45 to 1-55. †Since 1-1-55 and includes Aux Vases.	2001
						*No data available.	800
						*This part of this unit has been abandoned.	3912
2,540				35.0	3.2 @ 92°F	*Includes primary production since 11-47.	3913
2,560				37.0		*Includes primary production since 4-56.	3914
3,330	15.5	19.6	92	35–40	1.8 @ 99°F	*Corrected from 1957 data.	1500
3,150	6.0			37.0		*Controlled dump flood. †Includes primary production since start of flood.	3400
3,130	10.0	11.2	67.5	39.0			3401
						*No data 1957–58.	200
450	10.0	17.4	173	31.9	16.6 @ 70°F	Previously subjected to gas injection.	201
290	20.0	21.5	400	26.6	50.0 @ 60°F		202
2,845	15.0	15.4	12.2	36.2	3.4 @ 110°F	*Corrected from 1957 value.	4203
2,460	8.0	15.9	97.0	35.0	4.1 @ 150°F		4204
1,368	10.0			38.0			403

TABLE 15.—

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	General Formation
404	Centralia	Shell	Clinton	Centralia U	5–56	Benoist & Cypress
1900	Clay City C	Ashland	Jasper	Boos E.	9–53	McClosky
3402	Clay City C	Ashland	Richland	Noble N.	7–54	McClosky
300	Clay City C	Calvert	Clay	N. Clay City U	10–55	Rosiclare
3403	Clay City C	Calvert	Richland	E. Noble U	5–55	Rosiclare
4107	Clay City C	Calvert	Wayne	Wilson	4–55	Rosiclare
4109	Clay City C	F & W	Wayne	Miller & Lambrich U	8–50	Ohara Rosiclare McClosky
4110	Clay City C	Gen. Amer.	Wayne	Covington U	6–55	Ste. Genevieve
4111	Clay City C	T. W. George*	Wayne			Aux Vases
4119	Clay City C	Kirby*	Wayne	—	2–55	Aux Vases
301	Clay City C	Phillips*	Clay	Minnie Lease	7–53	Rosiclare
302	Clay City C	Pure	Clay & Wayne	Banker School C	1–57	Cypress
3404	Clay City C	Pure	Richland	Old Noble	8–54	McClosky
3405	Clay City C	Pure	Richland	S. Noble	8–57	McClosky
3406	Clay City C	Pure	Richland & Wayne	S.W. Noble	8–57	Rosiclare
4112	Clay City C	Pure	Wayne	Jordan School	10–55	Aux Vases
4131	Clay City C	Pure	Wayne			Aux Vases
4113	Clay City C	Pure	Wayne	N. E. Jordan School	10–56	Aux Vases
4114	Clay City C	Pure	Wayne	Van Fossan U	53	McClosky
1901	Clay City C	Robinson & Puckett	Jasper	N. E. McClosky #1	5–53	McClosky
1902	Clay City C	Robinson & Puckett	Jasper	S.W. McClosky #2	5–53	McClosky
4115	Clay City C	Robinson & Puckett	Wayne	N. Puckett U	1–56	Aux Vases
4116	Clay City C	Robinson & Puckett	Wayne	S. Pickett #1 U	8–54	Aux Vases
4117	Clay City C	Shakespeare	Wayne	E. Banker School	1–57	Cypress
4118	Clay City C	Shakespeare	Wayne	E. Geff U	1–57	Aux Vases
4108	Clay City C	Tamarack	Wayne	Pierce	2–54	Rosiclare
4132	Clay City C	Texas	Wayne	E. Galligher	1–58	McClosky
1908	Clay City C	Zanetis	Jasper	P. Kelley #3	11–58	Rosiclare
1909	Clay City C	Zanetis	Jasper	C. Harvey #2	11–58	Rosiclare
4205	Concord	Barron Kidd*	White	Kerwin-Concord	1–55	McClosky
4206	Concord	Phillips	White	Kerwin Lease	2–53	Rosiclare McClosky
4207	Concord	Phillips	White	Tuley Lease	7–51	McClosky
4208	Concord N	C. E. Brehm	White	Concord N	12–52	Aux Vases
4000	Cordes	Shell	Washington	Cordes Coop.*	8–50	Benoist
4120	Covington S	General American	Wayne	Heidinger-Vogel	11–57	McClosky
1501	Dale C	Inland Producers*	Hamilton	N. Rural Hill U	2–52	Aux Vases
1502	Dale C	Phillips U	Hamilton	Cantrell U	8–55	Aux Vases
1503	Dale C	Phillips U	Hamilton & Saline	West End U	1–56	Aux Vases
1507	Dale C	Stewart	Hamilton	Bill Jones	8–58	Aux Vases
1504	Dale C	Texas	Hamilton	W. Dale U	7–51	Aux Vases
1509	Dale C	Texas	Hamilton	C. W. Hood	6–58	Benoist
1508	Dale C	Texas	Hamilton	C. W. Hood	6–58	Aux Vases
2002	Divide E	Gulf	Jefferson	Holloway	5–55	McClosky
1903	Dundas E	Gulf	Jasper	Bessie	5–54	McClosky
3407	Dundas E	Gulf	Richland	E. Dundas U	10–56	McClosky
1904	Dundas E	Sohio	Jasper	Dundas E	4–55	Ohara
1007	Ellery E	Herndon	Edwards		12–57	Aux Vases Ohara
4133	Ellery C	Ill. Mid. Cont.	Wayne	—	—	Rosiclare McClosky
4209	Enfield S	Ryan	White	S. Enfield U #2	9–56	McClosky
3953	Friendsville N	J. W. Sanders	Wabash	—	8–57	Biehl
4124	Goldengate C	Cities Service	Wayne	Kletzker U*	8–56	Aux Vases
4123	Goldengate C	Cities Service	Wayne	Goldengate	8–56	Rosiclare Ohara
3600	Harco	Phillips	Saline	Noble "A"	6–57	Aux Vases
4210	Herald C	C. E. Brehm	White	Herald W	1–55	Waltersburg
1405	Herald C	Calvert	Gallatin	Cottonwood N U	12–57	Cypress
4211	Herald C	Mabee-Allen	White	Ackerman U	2–56	Aux Vases
4212	Herald C	Q. B. Mitchell*	White	Bayley U	9–57	Cypress
1101	Hill E	Partlow & Cochonour	Effingham	Cypress U	10–57	Cypress
320	Ingraham	Carter	Clay	Ingraham U	12–56	Rosiclare
1406	Inman E. C	Carter	Gallatin	Big Barn	4–54	U. Cypress

(Continued)

Information				Production and injection statistics (thousand bbls.)						
Location		Curtailed during '58		Secondary recovery						Map No.
				Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	
1, 2, 12, 35, 36	1N– 1W			5,666	13,094	2,668.2	4,532	2,273	3,287	404
2	6N–10E			53	262*	1.2	16			1900
35	4N– 9E			32*	282*	1.0	7†			3402
5, 8	3N– 8E			146	649	10.7	62*	90	259	300
2, 10, 11	3N– 9E			374	1,255	17.6	61*	185	498	3403
15	1S– 8E			11*	148*	1.9	9†			4107
29	1N– 8E			*	*	8.0	128			4109
30, 33, 25 19, 20, 28, 29	1S– 6E 1S– 7E			2,505	11,024	215.2	813	1,377	3,128	4110
21	1S– 7E									4111
16, 17	1N– 7E			401	718†	64.7	291††			4119
24	3N– 7E			12†	181	0†	79	12†	460	301
15, 21, 22, 28	2N– 8E			413	850	134.0	249	21	34	302
32, 33, 34 4, 5, 8, 9	4N– 9E 3N– 9E			6,104	22,310	511.2	1,415	2,202	5,183	3404
30, 31 25	3N– 9E 3N– 8E			654	964	36.8	46	58	75	3405
11, 12	2N– 8E			664	892	49.2	57	107	123	3406
3 27, 34, 35	1N– 7E 2N– 7E			1,826	5,810	495.1	1,147	793	1,199	4112
2, 11	1N– 7E			819	819	46.6	54	14	14	4131
25, 26, 35, 36	2N– 7E			1,195	2,743	296.1	352*	63	68	4113
14, 15, 22, 23, 26, 27	1N– 8E			940	9,075	61.8	404	545	2,499	4114
13, 14, 24	7N–10E			92	941	12.7	150	37	153	1901
23, 26	7N–10E			295	2,370	56.9	384	131	551	1902
9	2S– 8E			168	576	37.9	89	57	73	4115
16	2S– 8E			537	2,584	85.4	342	308	903	4116
22	2N– 8E			94	170	26.8	65	29	42	4117
13	1S– 7E			288	543	29.7	31	30	42	4118
22	2N– 8E		x	180*	562*	6.6	73*	180*	562*	4108
2	2S– 7E			32	32	0	0	0	0	4132
1	5N– 9E			0	0	0	0	0	0	1908
12	5N– 9E			1	1	0	0	0	0	1909
21	6S–10E			82‡	342	1.5	12	20	77	4205
21	6S–10E			110	696	5.9	24	40	177	4206
21	6S–10E			45	1,376	8.1	91	29	1,146*	4207
10	6S–10E			133	428	8.6	134			4208
14, 15, 22, 23	3S– 3W			1,148	9,809	205.3	2,345	1,331	7,547	4000
13	2S– 6E		x	32	44	2	0	0	0	4120
5, 6, 7, 8	6S– 6E									1501
5, 6, 7	7S– 5E			271	961	28.2	125	232	398	1502
17, 19, 20	7S– 5E			331	818	39.3	87	127	222	1503
8	6S– 6E			30	30	0	0	0	0	1507
11	6S– 6E			417	3,032*	50.8	380	293	1,221	1504
3	6S– 6E			58	58	*	*	*	*	1509
3	6S– 6E			64	64	3.0	3*	10	10*	1508
21	1S– 4E			267	681*	26.8	54*	157	274	2002
23	5N10E			180	533	7.8	39*	162	280	1903
25, 26, 35, 36	5N–10E			182	351	16.3	18*	6	7	3407
14	5N–10E			295*	1,209	21.5	111	284	815	1904
27, 34	2S–10E			537	554	29.9	30			1007
25	2S– 9E			*	*	0	0	0	0	4133
28, 29	5S– 8E			99	276	9.4	25*	15	35	4209
1	1N–13W			1	1	0	0	0	0	3953
4	3S– 9E	x		43	102	0.2	1	5	10	4124
28, 32, 33	2S– 9E			182	336	20.1	30	21	26	4123
16	8S– 5E			21	33	0.1	0.1	0	0	3600
28, 33	6S– 9E			114	126	32.0	32			4210
21, 28	7S– 9E			737	762	44.0	46*	66	71	1105
4	7S–10E			25	97	7.0*	13*†			4211
2	7S– 9E									4212
12	6N– 6E			179	213	0	0	179	213	1101
4, 9	4N– 8E			781	1,465	98.7	228*	567	719	320
11	8S–10E			16	94	4.6	68*	2	5	1406

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
404	129	113	5-Spot	20			Devonian Brine & Prod Brine	F & B	4.1	219
1900	3	3	Flank		40	80			18.3	
3402	1	1			20	40	Cypress	B	17.6	355
300	2	8	Peripheral	20	460	460	Cypress Sd	B	40.1	
3403	2	13	Peripheral	20	280	280	Cypress	B	46.5	
4107	1	1	Peripheral	20	40	40	Prod	B	3.0	
4109	4	4	Irregular	10	180	180	Prod	B		
4110	28	24	5-Spot	40	1,967	2,100	Sd & Prod	B	17.5	725
4111										
4119	5	27	Perimeter		680	777	A.V., McClosky Pen.	B	6.1	600
301	1	1			20	20	Prod Sd	B	2.7	
302	8	13	Line Drive	50 & 80	380	560	Penn. Sd & Prod	B	9.4	950
3404	10	45	Line Drive	100	1,200	2,500	Cypress & Prod	B	167.2	0
3405	2	8	Line Drive	200	400	1,290	Tar Springs & Prod	B	179.2	0
3406	4	12	Line Drive	85	240	240	Cypress & Prod	B	69.9	0
4112	34	39	5-Spot	18	687	1,400	Penn. & Prod	B	10.1	600
4131	20	21	5-Spot	28	560	1,273	Penn. & Prod	B	6.6	
4113	22	19	5-Spot	20	380	1,094	Penn. & Prod	B	9.6	600
4114	17	29	Line Drive	113	1,870	2,320	Cypress & Prod	B	15.1	
1901	2	6	Mod. Line		235	235	Fresh Water Well & Prod	F & B	20.4	1,200
1902	7	11	Mod. Line		415	415	Fresh Water Well & Prod	F & B	14.1	1,500
4115	5	6	Alt. Peripheral		172	172	Fresh & Prod	F & B	11.5	1,400
4116	7	11	Alt Peripheral		243	243	Fresh & Prod Br	F & B	14.2	1,000
4117	2	3	5-Spot		20	40	Penn. & Sd	B	10.3	840
4118	8	4	5-Spot	20	52	588	Penn. & Sd	B	6.2	595
4108	2	2			40	60	Prod	B	16.4	0
4132	1	1		40	— 40	80	Cypress & Prod	B	14.6	
1908	1	2		40	40	30	Cypress	B	0.8	
1909	1	1		40	40	20	Cypress	B	2.3	
4205	1	3		10	30	40	Shallow Sd	F	15.7	250
4206	1	6		10	50	100	Sd & Prod	B	10.0	
4207	1	6	Irregular	20	65	120	Upper Sd & Prod	B	4.1	
4208	2	2	Irregular		40	40		B	15.2	700
4000	36	64	5-Spot	20	640	640	Prod Br Pottsville Br	F & B	6.2	379
4120	1	1		40	80	80	Cypress Sd	B	22.2	
1501										
1502	3	6	5-Spot	10	50	110	Penn & Prod	B	16.5	697
1503	3	7	Irregular	10	65	90	Penn & Prod	B	20.1	885
1507	1	2		10	30	30	Cypress	B	11.0	500
1504	3	12	Perimeter	10	295	295	Sd & Prod	B	27.2	877
1509	1	4			50		Hardinsburg	B	10.6	0
1508	1	4		10	50		Hardinsburg	B	11.8	0
2002	1	5	Edge	20	20	150	Prod	B	106.2	480
1903	1	3		20	20	20	Prod	B	35.2	
3407	4	5	5-Spot	40	220	360	Penn.	B	20.7	600
1904	4	7	Perimeter	10	102	180	Cypress	B	25.3	*
1007	9	17								1,200
4133	1	3	Irregular	20			Cypress	B		
4209	1	3			60	90	Fresh at 150	F	54.2	1,790
3953	1	2		20	80	80	Water Sd	B	.09	500
4124	1	2	Irregular	10	10	30	Cypress Sd	B	16.0	500
4123	6	10	Irregular		120	180	Gr	F	5.5	
3600	1	2		10	10	30	Prod	B	4.8	
4210	1	13			365	260	Penn.	B	15.6	1,200
1405	21	20	5-Spot	10	400	525	Basal Penn. Sd	B	8.0	1,500
4211	1	2	5-Spot				Tar Springs	B	3.0	375
4212										
1101	1	12			10	120	Prod	B	40.8	150
320	9	12	5-Spot	40	297	552	Penn. Sd	B	46.6	120
1406	2	1	5-Spot	10	15	30	River	F	3.7	1,200

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
Cyp. 1200 U.Cyp. 10.0 UC 19.3 U.Cyp. 74 Ben. 1350 L. Cyp. 9.0 LC 21.1 L.Cyp. 225 Ben. 19.0 Ben. 19.6 Ben. 186							404
				38.0			
2,645	8.0			40.0	3.2 @ 75°F	*Injection shut down from 12-55 to 5-57; controlled dump flood.	1900
3,000	5.0			38.0		*Controlled dump flood. †Includes primary production from 7-54 to 12-57.	3402
3,010	5.0			36.4		*Includes 1956 primary production.	300
2,950	11.0			30.0		*Includes 1956 primary production.	3403
3,159	10.0					*Injection estimated. †Includes primary production from 4-55 to 12-55.	4107
3,050	5.0					*Dump flood.	4109
3,200	14.0	5–22	80	39.0			4110
						*No 1957–1958 data.	4111
3,000	6.0	19.0		38.0		*Was operated by Toklan. †Corrected from 1957 value. ‡Since 1-1-56.	4119
2,990	30.0	14.0	2,000	39.0		*Property sold to Fairfield Salvage and Prod. Co. †No data after 5-58.	301
2,639	15.0	18.0	65				302
2,930	10.0			36.0			3404
2,975	5.0	13.0*	300*			*Estimated.	3405
2,984	6.5						3406
2,950	14.6	19.0	73	35.0		Previously subjected to gas injection.	4112
2,930	17.0	19.0	106	40.0		Gas injection 7-55 to 1-58; no effect.	4131
2,950	15.5	19.0	106	37.0		Previously subjected to gas injection.	4113
3,070	16.0	13.0	300	36.0			4114
2,530	6.2	14.0		39.8	3.7 @ 100°F		1901
2,580	8.2	14.0		39.8	2.9 @ 92°F		1902
3,150	8.0	19.0	115	39.0	3.7 @ 100°F		4115
3,200	14.8	20.0	80	39.0	3.7 @ 100°F		4116
2,639	12.5	16.5	43	34.4	6.8 @ 60°F		4117
3,065	15.9	19.0	85	38.7	3.4 @ 90°F		4118
3,050	15.0					*Estimated.	4108
3,255	6.0			38.0			4132
2,941	5.0						1908
2,954	6.0						1909
3,003	16.0					*Property sold to Acme Casing Pulling Co. 1-59. †Dump flood. ‡Discontinued injection 11-58.	4205
2,960	30.0	15.0*	300*	37.0		*Estimated.	4206
2,960	30.0	15.0†	200†	36–37		*Corrected to 1957 value. †Estimated.	4207
2,950	12.0	21.1	218	35.1	5.0 @ 103°F		4208
1,230	14.0	20.0	250	37.0		*Shell, Magnolia, McBride & Horton.	4000
3,316	4.0						4120
						*No data 1958.	1501
3,200	15.0	18.0*	75*	37–39		*Estimated.	1502
3,150	15.0	18.0*	75*	35–38		*Estimated.	1503
3,090	20.0						1507
3,050	14.0	17.0	125	38.0		Previously subjected to gas injection. *Corrected from 1957 value.	1504
2,950	26.0			37.0		*Oil and water production included with 1508.	1509
3,050	26.0			37.0		*Includes 1509 oil and water production.	1508
2,805	6.9	18.0		36.6	3.4 @ 97°F	*Corrected from 1957 value.	2`02
2,941	14.0	16.6	775	37.8	2.5	*Corrected from 1957 value.	1903
2,985	6.0	12.5		41.4		*Corrected from 1957 value.	3407
2,900	8.0			35.0		*Dump flood.	1904
							1007
3,200						*Dump flood; unknown.	4133
3,385	5.0	10.5	22		2.5 @ 103°F	*Includes primary production since 1-1-57.	4209
1,606	15.0			34.0	34.2 @ 63°F		3953
3,242	10.0	15.0	10	37.0		*Abd. Sept. 1958.	4124
3,260	15.0	15.0	10–15	36.0			4123
2,890	12.0	22.0*	100*	39.0		*Estimated.	3600
1,866	20.0	19.5	200	38.0	3.5 @ 60°F		4210
2,650	12.0	15.0	17			*Total production since 12-57.	1405
2,913	23.0				3.4	*Corrected figures. †Includes primary production since 1-57.	4211
						*No 1958 data.	4212
2,460	12.0			38.0			1101
3,000	5.1	14.2	2,450			*Corrected to 1957 value.	320
2,400	5.9	16.5	58	36.4	4.2 @ 92°F	*Corrected to 1957 value.	1406

TABLE 15.—

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	General Formation
1407	Inman E. C	Carter	Gallatin	Kerwin-Craw.	6–55	Chester
1408	Inman E. C	Carter	Gallatin	West U	7–56	Waltersburg Cypress Hardinsburg
1409	Inman E. C	Natural Resources	Gallatin	Big Barn	3–54	Tar Springs
1410	Inman E. C	Natural Resources	Gallatin	Big Barn	3–54	Cypress
1411	Inman E. C	Sun	Gallatin	Inman East*	3–54	Tar Springs
1400	Inman W. C	Ferral*	Gallatin	Aux Vases		Aux Vases
1401	Inman W. C	Gallagher	Gallatin	Bradley U	10–57	Biehl
1402	Inman W. C	Gulf	Gallatin	W. Inman U	5–55	Cypress
1403	Inman W. C	Gulf	Gallatin	W. Inman	3–57	Tar Springs
1404	Inman W. C	Phillips	Gallatin	Levert	5–57	Cypress
1415	Inman W. C	Skiles	Gallatin	Lawler	—	Tar Springs
321	Iola	Carter	Clay	Iola	6–58	Cypress Pt. Creek Bethel Aux Vases
322	Iola	Texas	Clay	Iola Co-op	58	Benoist
323	Iola	Texas	Clay	Iola Co-op	58	Aux Vases
303	Iola	Tidewater	Clay	Cora Davis	10–57	Bethel-Aux Vases
304	Iola	Tidewater	Clay	Dee & Heirs	10–57	Bethel-Aux Vases
325	Iola	Tidewater	Clay	L. Moss "A"	7–58	Bethel-Aux Vases
326	Iola	Tidewater	Clay	M. J. Reed	6–58	Bethel-Aux Vases
4001	Irvington	Kapp	Washington	Molting Field	5–58	Cypress
4002	Irvington	Mazzarino	Washington	Kasten	11–57	Cypress
203	Johnson N	W. H. Bass*	Clark	N. Johnson	1–53	Casey
204	Johnson N	C. L. McMahon*	Clark	Block "A"	4–49	Casey
205	Johnson N	C. L. McMahon*	Clark	Block "B"	5–51	Casey
206	Johnson N.	Oilfield*	Clark	V. Jones	9–51	Casey
207	Johnson N.	Pure	Clark	N. Johnson	11–57	Claypool Casey U. Partlow
208	Johnson N.	Tidewater	Clark	Clark #1	2–50	Casey
209	Johnson S.	Forest	Clark	S. Johnson	3–49	U. Partlow
210	Johnson S.	Pure	Clark	Johnson Ext. #1	1–54	U. Partlow
211	Johnson S.	Pure	Clark	Johnson Ext. #2	11–55	Claypool Casey U. Partlow
212	Johnson S.	Pure	Clark	Pure-Kewanee	1–54	U. Partlow
213	Johnson S.	Pure	Clark	Weaver-Bennett	1–53	U. Partlow
4134	Johnsonville C.	Pure	Wayne	Crisp	2–58	Aux Vases
4121	Johnsonville C.	Texas	Wayne	Johnsonville U	10–56	Aux Vases
4122	Johnsonville C.	Texas	Wayne	Johnsonville U	11–54	McClosky
4135	Johnsonville C.	Texas	Wayne	Johnsonville U	—	L. Ohara
1412	Junction	Lewis*	Gallatin	Junction U	5–51	Waltersburg
3915	Keensburg S.	Vickery Drilling Co.	Wabash	A. P. Garst	10–54	Cypress
4125	Keenville	Calvert	Wayne	Keenville U	11–56	McClosky
4126	Keenville	W. Duncan	Wayne	Keenville U	4–54	Aux Vases
324	Kenner N.	Ind. Farm Bureau	Clay	Theobald	10–58	Benoist
305	Kenner	Texas	Clay	Kenner U	11–57	Benoist
306	Kenner W.	Phillips U	Clay	W. Kenner	2–52	Benoist & Cypress
3916	Lancaster S.	Ashland	Wabash	Lancaster	1–55	Bethel
3954	Lancaster S.	Hayes-Wolf Bros.	Wabash	Lancaster U	12–58	Bethel
2201	Lawrence	Baldwin & Baldwin*	Lawrence	—	10–57	Bridgeport Paint Creek
2202	Lawrence	Bradley	Lawrence	C. M. Perkins	2–55	Bridgeport
2203	Lawrence	Bradley	Lawrence	C. M. Perkins	2–55	Kirkwood
2233	Lawrence	Bradley	Lawrence	Pepple	6–57	Kirkwood
2235	Lawrence	Bradley	Lawrence	L. Gillespie	11–58	Cypress
2236	Lawrence	Bradley	Lawrence	L. Gillespie	11–58	Bridgeport
2234	Lawrence	Bradley	Lawrence	L. Gillespie	11–58	Paint Creek
2237	Lawrence	M. G. Curts	Lawrence	Stoltz Heirs	7–58	Cypress
2204	Lawrence	Dearborn*	Lawrence	Applegate	9–52	Cypress, Jackson
2205	Lawrence	W. Duncan	Lawrence	L. C. David	8–56	Paint Creek
2206	Lawrence	T. W. George	Lawrence	Klondike	6–52	Bethel
2241	Lawrence	D. S. Huddleston	Lawrence	Vandermark Albrecht U	8–58	Bridgeport
2208	Lawrence	W. C. McBride	Lawrence	Crump "40"	4–56	Kirkwood
2209	Lawrence	W. C. McBride	Lawrence	Crump-Fyffe	12–56	Kirkwood
2210	Lawrence	W. C. McBride	Lawrence	Neal	6–56	Paint Creek, Kirkwood
2211	Lawrence	Murphy	Lawrence	Stoltz	1–55	Bridgeport

(Continued)

Information				Production and injection statistics (thousand bbls.)						
Location		Curtailed during '58		Secondary recovery						Map No.
				Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	
11, 14	8S-10E			1,234	3,730	295.6	658*	191	354	1407
15	8S-10E			1,292	3,049	608.1	938*†	134	245‡	1408
{34	7S-10E}			1,848*	10,412	63.2†	777	398	706	1409
{2, 3, 4, 10, 11	8S-10E}									
{34	7S-10E}			503*	2,468	201.2†	883	239	341	1410
{2, 3, 4, 10, 11	8S-10E}									
3	8S-10E			230	1,111	7.2	179	129	333	1411
19	8S-10E									1400
17	8S- 9E		x	76	93	40.5	42	5	9	1401
15, 16	8S- 9E			165	1,313	70.0	255*	46	98	1402
15	8S- 9E			75	144	0	0	0	0	1403
3	8S- 9E			4	8	0	0	0	0	1404
13, 24	8S- 9E			*	*	2.0	2	23	23†	1415
15	5N- 5E			30	30	3.0*	3*	7	7	321
14, 15	5N- 5E			125	125	1.4	1.4			322
14, 15	5N- 5E			272	1,166	6.2	6.2	142	587	323
15	5N- 5E			279	302	69.4	87	13	16	303
14, 15	5N- 5E			303	329	24.8	27	105	112	304
14	5N- 5E			108	108	17.2	17.2	56	56	325
14	5N- 5E		x	65	65	0	0	4	4	326
9	1S- 1W			134	134	12.0	12.0	96	96	4001
9	1S- 1W			33	33	8.0	9*			4002
2, 11	9N-14W									203
2	9N-14W									204
35, 36	10N-14W									205
1, 3	9N-14W									206
10, 11, 15, 14	9N-14W			1,259	2,383	127.4	142*	526	619*	207
2	9N-14W			228	2,276*	11.4	151*	205	1,369*	208
27, 34, 35	9N-14W			3,891	31,079	85.7	998			209
23, 26, 27	9N-14W			1,367	8,001	53.5	509	1,204	5,558	210
22, 23, 26	9N-14W			1,027	4,021	99.2	195	528	954	211
22, 27	9N-14W			434	2,413	11.2	132	487	1,607	212
27	9N-14W			602	7,256	18.9	455	973	5,639	213
7, 8, 17, 18	1S- 6E			874	874	11.8*	15*	7	7	4134
{21, 26, 27, 28,	1N- 6E}			1,253	2,715	130.0	152	165	219	4121
{ 33, 34, 35	}									
{21, 26, 27, 28,	1N- 6E}			3,779*	13,550	275.7*	1,093*	1,533	5,311†	4122
{ 33, 34, 35	}									
28	1N- 6E			*	*	*	*	*	*	4135
16	9S- 9E			166	1,288	18.8	240†	113	546	1412
27	2S-13W					4.3		7		3915
27, 28, 33, 34	1S- 5E			354	575	64.0	98*	73	117	4125
28, 29	1S- 5E			336	1,598	49.0	321*	154	463	4126
17	3N- 6E			5	5	0	0	15		324
{25, 36	3N- 5E}			1,163	1,344	172.1	173	322	340*	305
{19, 30	3N- 6E}									
23	3N- 5E			1,648	8,770	36.2	313	468	1,318	306
21	1N-13W			22	98	8.8	35*			3916
4, 9	1N-13W			13	13					3954
6	3N-12W									2201
32	4N-12W			683	1,715†	145.4*	412*†	347*	731*†	2202
32	4N-12W			673	1,417	*	*	*	*	2203
30	4N-12W			541	697	145.0	145	25	32	2233
26, 35	3N-12W			28	28	4.0	6	6*	4*	2235
26, 35	3N 12W			24	24	*	*	*	*	2236
26, 35	3N-12W			8	8	*	*	*	*	2234
25	4N-13W			30	30	.2	.2	0	0	2237
7	4N-12W									2204
8	3N-11W			13	56*	0	0	4	8	2205
25, 26, 35, 36	5N-13W			1,058*	7,213*	127.2*	910*			2206
34	3N-12W			34	34	0	0			2241
19	4N-12W			497	1,026	75.3	147	190	261*	2208
31	4N-12W			505	822	53.1	56	31	33	2209
29	4N-12W			661	1,124	73.7	106	58	72	2210
32	4N-12W			288	978*	48 5	†	351	†	2211

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source S1=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
1407	37	36	5-Spot	20	376	435	Gr Bed	F	5 2	1,100
1408	39	36	5-Spot	20	606	884	Gr	F	8.2	700
1409	50	50	5-Spot	20	750	796	Gr Bed	F	6.8	
1410	50	50	5-Spot	20	664	664	Gr Bed	F	2.9	
1411	2	2	5-Spot	10	40	40	Prod & Gr	F & B	10.9	1,235
1400										
1401	3	3	Peripheral	10	180	180	1250′ Water Sd	B		500
1402	10	8	5-Spot	20	110	170	Penn.	B	2.7	1,545
1403	1	2		10	11	30	Penn.	B	18.7	1,230
1404	1	1		10	20	20	Prod. Sd	B	1.7	
1415	1	8	Line		15	90	Waltersburg	B		
321	1	2	5-Spot	20	25	30	Penn. & Prod	B	6.8	
322	9	3	5-Spot	10	190	310	Shallow Sd & Prod	B	4.0	252
323	11	5	5-Spot	10	240	310	Prod & Shallow Sd	B	5.1	557
303	4	4	5-Spot	20	80	80	Prod & Penn. Sd	F & B	4.1	660
304	5	5	5-Spot	20	73	120	Prod & Penn. Sd	F & B	3.7	660
325	2	4	5 Spot	20	50	60	Prod & Penn. Sd	F & B	10.0	660
326	1	1	5-Spot	20	8	30	Prod & Penn. Sd	F & B	7.0	660
4001	4	11		10	160		Tar Springs	B	7.7	50
4002	1	5			80	80	Water Prod	B	6.0	210
203			5-Spot	4.5						
204										
205										
206										
207	48	59	5-Spot	4.5	223	223	Prod & Gr	F & B	1.3	160
208	17.5	50	5-Spot	4.4	104	252		F	2.1	297
209	86	75	5-Spot	4.4	400		Prod	B	2 6	280
210	66	54	5-Spot	5	243	646	Gr & Prod	F & B	1.6	245
211	73	60	5-Spot	5	236	646	Gr & Prod	F & B	.6	245
212	20	12	5-Spot	5	53	646	Prod	B	1.8	245
213	36	22	5-Spot	5	114	646	Prod	B	1.3	245
4134	10	7	5-Spot	36	360	600	Penn. & Prod	B	16 6	340
4121	18	21		10	1,200	2,110*	Penn. & Prod	B	25.4	783
4122	22	66	Perimeter	20	3,220		Weiler & Prod	B	47.1	200‡
4135	3									
1412	11	7	Irregular 5-Spot	10	263	263	Shallow Sd	F	3.0	1,000
3915	1	1		60	60	60	Gr	F	34 1	50
4125	4	12	Peripheral		180	220	Basal Penn. Sd	B	26 9	
4126	3	4	Peripheral		130	130	Shallow Sd	F	2.4	1,650
324	1	2			20	80	Prod	B		
305	23	25	5-Spot	10	880	480	Penn. & Prod	B	9.9	1,250
306	12	15	5-Spot	10	300	329	Penn. Sd & Prod	B	14 5	1,130
3916	1	3	Irregular	30	30	30	L. Tar Springs	B	6.1	800
3954	3	52			30	500	McClosky	B	10.5	1,200
2201										
2202	19	10	5-Spot	10	100	100	Prod & Buchanan Sd	B	7.0	280
2203	19	10	5-Spot	10	100	100	Prod & Buchanan Sd	B	4.9	280
2233	14	12	5-Spot	10	80	80	Prod & Buchanan Sd	B	3.5	301
2235	9	35	5-Spot	10	120	120	Prod & Buchanan Sd	B	3.8	
2236	9	35	5-Spot	10	120	120	Prod & Buchanan Sd	B		
2234	2	2	5-Spot	10	30	30	Prod & Buchanan Sd	B	10.5	
2237	2	3	5-Spot	10	20	50	Water Well	F	4.2	
2204										
2205	1	1			20	10	River Gr	F	8.7	1,200
2206	44	36	5-Spot	13.5	750	900	Shallow Sd	F	3.7	
2241	2	5	Edge	10	70	70	Prod	F & B	4.7	216
2208	9†	5	5-Spot	10	40	40	River Gr Pits	F	6.1	400
2209	9*	7	5-Spot	10	50	70	River Gr Pits & Prod, Buchanan Sd	F & B	7.0	400
2210	15*	8	5-Spot	10	80	80	River Gr Pits & Prod, Buchanan Sd	F & B	3.7	250
2211	10	4	5-Spot	3	25	25	Purchased	B	2.2	420

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
1,670	17.7	19.6	959			*Corrected to 1957 value.	1407
2,000	11.0	19.6	109			*Increased 39,871 barrels due to expansion. †Includes 20,920 barrels accumulated at start of flood. ‡Increased due to expansion 40,084 barrels.	1408
2,100	15.0	17.5	137	37.7	3.6 @ 63°F	*Water injection is total for field. †Production from Big Barn Lease & MBK unit only.	1409
2,400	9.6	16.8	50	38.0	3.6 @ 63°F	*†As above.	1410
2,100	29.0	17.9	133	35.5		*Coop with Calstar.	1411
						*No data 1957–1958.	1400
1,726		15.0	72	36.9	5.4 @ 80°F		1401
2,500	16.5	13.5	40	38.6	3.88 @ 100°F	*Corrected to 1957 value.	1402
2,180	11.0	13.0		36.1			1403
2,560	6.0	18.0*	100*	35.0		*Estimated.	1404
2,122	8.0					*Dump flood. †Since 1-1-58.	1415
2,150	21.0	15.7	42–100	36.0		*Estimated.	321
2,290	9 5	15.8	48	35.2-37			322
2,350	13.3	15.7	80	35.2-37			323
2,300	46 5			37 0			303
2,300	45 0			37.0			304
2,300	30.0						325
2,300	44.0						326
1,374	12.0			36.0			4001
1,370	15.0			39.0		*Estimated 1957 production 500 barrels.	4002
400	22.0	19.0	225	33.0	13 6	*No data reported 1957–1958.	203
					19.0	*Previously subjected to gas injection. No 1957–1958 data.	204
						*No data 1958.	205
						*No data 1957–58.	206
320	24.0 19.0 14.0	19.5	330			*Corrected 1957 value.	207
425	17.0	20.6	415	33.9	10.7 @ 70°F	Subject to gas injection 1946–47. *Injection data as shown is net to the project, also cumulative to 12-57 has been adjusted by the operator.	208
490	48.0	16.6	319	29.2	14.7 @ 77°F	Previously subjected to gas injection.	209
465	35.0	18.9	312	29.7	21.0 @ 65°F		210
420	19.0 15.0 30.0	20.6	294				211
507	33.0	18.2	277	29.7	25.5 @ 65°F	Previously subjected to air injection.	212
467	35.5	18.6	285	29.7	25.5 @ 65°F		213
3,017	17 0	19.0	80			*Includes primary production.	4134
3,000	7.5	19.1	187	35.1-39.3		*Unitized acreage.	4121
3,100	10.0	15.5	850	35.1-39.3		*Includes lower Ohara. †Corrected to 1957 value. ‡Nine wells are on surface injection.	4122
						*Injection and production data included with 4122.	4135
1,750	14.0	13.4	21.9	34.7	6.7 @ 81°F	*Formerly Alco. †Includes primary production since 11-51.	1412
2,403	15.0	20.6	134	37.5	4.6 @ 91°F		3915
3,100	9.0					*Includes primary production since 11-56.	4125
2,950	13.0	20.0	155	39.0	3.5 @ 97°F	*Includes primary production since 4-54.	4126
2,750				36.0			324
2,700	14.0	15.6	54	35.0-37.8		*Corrected 1957 value.	305
2,600	26.0	18.0	125	38.0			306
2,520	10.0					*Includes primary production since start of flood.	3916
2,500	16.0			34.0		Pilot flood.	3954
						*No data 1957–58.	2201
900	14.0	18.0	125	36.0	6.1 @ 60°F	*Corrected figures. †Includes Kirkwood.	2202
1,350	20.0	18.0	100	37.2	6.1 @ 60°F	*Included with Bridgeport.	2203
1,400	30.0	18.0	75	37.0	5.8 @ 60°F		2233
1,550	28.0	17.0	35		4.6 @ 80°F	*Water production is total from Bridgeport, Cypress, Paint Creek.	2235
990	30.0	19.3	200	29.8	20.8 @ 72°F	*Included in 2235.	2236
1,660	10.0	16.5	25			*Included in 2235.	2234
1,540	20.0			36.0			2237
					4.3 @ 81°F	*No 1958 data.	2204
1,600	6.0				5.2 @ 80°F	*Corrected figure.	2205
1,625	18.0	17.2	60	37.8	5.2 @ 80°F	*Estimate based on 12-58 figures.	2206
988	24.0	20.7	398	29.5	21.0 @ 72°F		2241
1,280	25.0	21.0	90			*Since 1-1-57. †Includes 8 line wells.	2208
1,420	22.0	20.0	80			*Includes 7 line wells.	2209
1,390	33.0	20.0	60			*Includes 12 line wells.	2210
860	25 0	22.3	148	37.0		*Corrected to 1957 value. †Included in 2212.	2211

TABLE 15 —

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	General Formation
2212	Lawrence	Murphy	Lawrence	Stoltz	1–55	Kirkwood
2213	Lawrence	Ohio	Lawrence	8 Projects*	1952	Kirkwood & Paint Creek
2219–2223, 2239, 2215						
2214	Lawrence	Ohio	Lawrence	7 Projects*	1948	Bridgeport
2224-2228, 2238						
2216	Lawrence	Ohio	Lawrence	Gillespie	11–56	McClosky
2217	Lawrence	Shakespeare	Lawrence	S. Bridgeport U	10–56	Benoist
2207	Lawrence	Tekoil*	Lawrence	Gray Area	5–53	Jackson Benoist Renault
704	Lillyville	Ind. Farm Bur.	Cumberland	Krogman	5–57	McClosky
2501	Livingston	Cahill & Smith	Madison	C & O Henke	5–52	Penn.
2500	Livingston	W. H. Krohn*	Madison		7–54	Penn.
1200	Louden	J. P. Babcock	Fayette	Rhodes & McCloy	1–54	Paint Creek & Bethel
1201	Louden	W. L. Belden	Fayette	Hinton	9–56	Cypress
1202	Louden	W. L. Belden	Fayette	Unit 25	10–57	Cypress
1203	Louden	Burtschi	Fayette	D. L. Burtschi	10–53	Cypress
1204	Louden	Carter	Fayette	Louden	10–50	Chester
1205	Louden	Doran	Fayette	Stewart & Dial	7–57	Cypress
1206	Louden	General American	Fayette	Devore Co-op.	7–57	Weiler
1207	Louden	Jarvis Bros. & Marcell	Fayette	Homan	3–54	Cypress
1208	Louden	Jarvis & Marcell	Fayette	Yakey	11–57	Cypress, Benoist
1209	Louden	B. Kidd	Fayette	Louden	9–54	Weiler
1210	Louden	Kingwood	Fayette	Yolton	8–57	Cypress
1211	Louden	Kingwood	Fayette	Yolton	8–57	Paint Creek
1212	Louden	J. A. Lewis	Fayette	Louden Extension	12–55	Cypress
1213	Louden	J. J. Lynn Estate	Fayette	E. C. Smith	7–57	Cypress
1214	Louden	Mabee	Fayette	Homan	8–55	Cypress
1215	Louden	Mabee	Fayette	Louden	5–57	Cypress
1216	Louden	Magnolia	Fayette	Rhodes-Watson	8–57	Cypress Paint Creek Benoist
1224	Louden	Magnolia	Fayette	Louden	4–58	Cypress Paint Creek Benoist
1217	Louden	W. C. McBride	Fayette	Stokes Weiler	3–56	Weiler
1218	Louden	Shell	Fayette	N. Louden U	11–56	Cypress
1219	Louden	Shell	Fayette	S. Louden U	3–55	Cypress
1220	Louden	R. H. Troop	Fayette	Durbin Area	8–56	Cypress
1221	Louden	R. H. Troop	Fayette	Hiatt U	9–56	Cypress
667	Main C	H. J. Adams	Crawford	H. J. Adams* Waterflood	—	—
602	Main C	Ashland	Crawford	Birds #1	5–54	Robinson
603	Main C	Ashland	Crawford	Birds #2	3–57	Robinson
604	Main C	Bell Bros.	Crawford	Barrick	10–54	Robinson
605	Main C	Calvan-American*	Crawford	Bishop	11–53	Robinson
609	Main C	E. Constantin	Crawford	J. S. Kirk	8–51	Robinson
610	Main C	E. Constantin*	Crawford	Smith	3–54	Robinson
608	Main C	W. Duncan*	Crawford	Tohill Hughes Robinson	—	Robinson
606	Main C	Forest*	Crawford	Grogan #1	10–53	Robinson
669	Main C	Forest	Crawford	Oblong #3	1958	Robinson
611	Main C	Forest	Crawford	Oblong	8–56	Robinson
670	Main C	Forest	Crawford	Stifle U	1958	Robinson
612	Main C	D. W. Franchot	Crawford	Birds	6–51	Robinson
613	Main C	General Operations*	Crawford	Culver	2–53	Robinson
660	Main C	General Operations	Crawford	Culver Pilot*	5–57	Robinson
614	Main C	General Operations	Crawford	Little John	10–52	Robinson
615	Main C	G.M.J.	Crawford	Porterville	5–54	Robinson
616	Main C	Hardinville*	Crawford	Tohill & Hughes	6–51	Robinson

(Continued)

Information				Production and injection statistics (thousand bbls.)						
				Secondary recovery						
Location		Curtailed during '58		Water injection		Oil production		Water production		Map No.
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	
32	4N-12W			381	1,499*	48.5	324†	351	873†	2212
	3N, 4N-12W			8,491	28,802	1,828.9	5,281	2,739	7,096	2213
										2219–2223
										2239, 2215
				8,491	54,292	915.7	7,132	7,102	29,571	2214
										2224–2228
										2238
23, 26	3N-12W			1,389	2,561	191.1	236	685	830	2216
20, 29, 30	3N-12W			449	775	78.2	91	49	51	2217
13	4N-13W			511	1,531	80.1	207	321	665†	2207
31	9N- 7E			53	94	2.9	3	3		704
17, 20	6N- 6W			125	485*			36		2501
17	6N- 6W									2500
27, 34	8N- 3E			305	1,744	71.4†	422*†	228	574*	1200
32	7N- 3E			19	88	2.4	6			1201
24, 25	8N- 3E			403	455	8	8	1	1	1202
18	7N- 3E			27	27	6.3	6			1203
	7N, 8N-3E			31,368	169,756	9,325.8	42,997*	7,669	24,412	1204
6	7N- 3E	x		74	109	1.1	2*	0	0	1205
1	7N- 2E			45	67	22.0	27*	9	10	1206
29, 32	7N- 3E			1,491	3,028	512.0	792*	450	750*	1207
6	7N- 3E			380	428	25.9	28*	69	81	1208
8	7N- 3E			50	279	10.1	62	67	236	1209
{7	7N- 3E}			166	239	28.7	36*	27	31	1210
{12	7N- 2E}									
{7	7N- 3E}			52	71	1.4	2	6	8	1211
{12	7N- 2E}									
{2, 3	8N- 3E}			3,483	8,184	715.6	2,390*	2,410	3,560	1212
{34, 35, 36	7N- 3E}									
20	7N- 3E			189	250	105.2	129	28	28	1213
29	7N- 3E			266	620	102.2*	241*	131	305†	1214
30	7N- 3E			154	237	99.8	108	26	26	1215
27, 33, 34	8N- 3E			74	93	86.0	94*	349	500	1216
{32	8N- 3E}			961	961	9.0	9	16	16	1224
{5	7N- 3E}									
14	8N- 3E			239	595	85.5	93	1	3	1217
20, 21	7N- 3E			1,830	3,750	504.1	968	935	1,165	1218
21, 28, 29	7N- 3E			1,383	4,769	342.0	1,203*	912	2,079	1219
24, 26	8N- 3E			194	339	31.4	57*			1220
29	7N- 3E			152	419	131.4	193	78	105*	1221
										667
9, 10, 15, 16	5N-11W			2,274	12,531	68.0	355	36	1,330	602
20	5N-11W			130	257	5.4	7*			603
13	7N-13W			175	348	5.4	5.4	18	18	604
20	8N-12W									605
29, 30, 31, 32	7N-12W			145	977	11.1	57	22*		609
{12	7N-13W}									610
{7	7N-12W}									
27, 28	6N-13W									608
4, 9	7N-13W				971		32			606
5, 8, 9	7N-13W			76	76	11.7	12			669
5, 8, 9	7N-13W			385	1,643	93.7	152			611
				73	73					670
21, 22	5N-11W			2,469	14,918*	136.5	817*	200†	1,000†	612
5, 6, 7	7N-12W			50	1,408*	0.4	4†	12	124†	613
16	7N-12W			142	296	4.9	7	19	34†	660
20	6N-12W			183	442*	9.6	28	91	153	614
25, 36	8N-13W	x		143	751	5.8	18			615
28	6N-13W									616

TABLE 15.—

Map No.	Development as of 12–31–58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source S=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per da per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
2212	10	4	5-Spot	3	35	25	Purchased	B	5.7	390
2213, 2219–2223, 2239, 2215, 2214, 2224–2228, 2238	325	298	5-Spot	10	2,538		Gr Bed & Prod	F & B		
	215	269	5-Spot	10	1,691		Gr Bed & Prod	F & B		
2216	10	36	Line		*	298	Gr Bed & Prod	F & B		
2217	19	20	Mod. 5-Spot	23.3	313	514	Tar Springs	B	5.4	241
2207	13	22	5-Spot	10	317	317	Bridgeport Sd	B	7.4	550
704	1	2			20	80	Prod	B		220
2501	8	10	5-Spot & Perimeter		40	40	Salem & Prod	B	2.9	500
2500										
1200	8	9	5-Spot	10	170	170	Tar Springs & Prod	B	4.2	500
1201	1	1	5-Spot		20	10		B	2.6	
1202	6	20		40	240	240		B	12 3	500
1203	1	1		10	20	20	Purchased*	F & B	2.5	0
1204	568	875	5-Spot & Sunflower	20, 17.5	13,880	15,900	Tar Springs & Prod	B	5.0	170
1205	2	4	5-Spot	10	60			B	5.1	160
1206	1	5		10	100	100	Sd	B	12 3	0
1207	16	18	5-Spot		320	400		B	7.3	0
1208	4	6	5-Spot	20	70	70		B	5.2	0
1209	1	4	5-Spot	20	40	50	Purchased*		5.1	365
1210	4	4	5-Spot	20	85	85	Tar Springs	B	3.8	
1211	1	1	5-Spot	20	40	40	Tar Springs	B	4.9	
1212	46	48	5-Spot	20	1,000	1,000	Tar Springs	B	14.0	600
1213	3	7		35	100	100	Purchased*	B	5.2	50
1214	4	4	5-Spot		80	80	Purchased‡	B	6.1	0
1215	3	5	5-Spot				Purchased*	B	4.7	0
1216	6	8	5-Spot	20	110	160	Prod, Tar Springs & Sd	B		
1224	24	22	5-Spot	20	240	240	Prod & Tar Springs	B		
1217	3	3	5-Spot	20	60	60	Tar Springs	B	8.7	0
1218	20	21	5-Spot	10	250	250	Tar Springs	B	11.9	94
1219	20	21	5-Spot	20	350	590	Tar Springs	B	10.3	68
1220	2	4	5-Spot		50	50	Tar Springs	B	8.9	217
1221	2	3	5-Spot	40	40	40	Tar Springs	B	5.2	0
667										
602	66	53	5-Spot	10	530	580	Penn. Sd	B	3.1	630
603	3	2	5-Spot		20		Purchased	B	4.7	460
604	3	3	5-Spot	20	40	40	Prod & Water Well	B	2.8	300
605										
609	14	37	5-Spot		55	393	Purchased	F	0.6	410
610										
608	12	17	5-Spot	10	130		Prod & Fresh	F & B		600
606	13	11	5-Spot		106	231		F & B		550
669	5	2	5-Spot		10			F & B	2.8	550
611	28	19	5-Spot		168	230	Gr Beds & Prod	F & B	1.8	550
670	6	0*	5-Spot		25			F & B	1.4	550
612	85	80	5-Spot	10	740	1,600	River Gr Bed	F	3.3	500
613	12	8	5-Spot	10	45	640	Lake & Prod	F & B	0.5	430
660	6	5	5-Spot		35	240	Lake	F & B	4.6	470
614	4	9	Irregular	4.5	35	120	Creek & Prod	F & B	5.2	400
615	3	6	5-Spot	10	30	417	Lake	F	6.6	660
616										

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
1,400	18.5	17.3	17.5	37.0		*Corrected to 1957 value. †Includes 2211.	2212
						*Westall-Boyd-Sutton-Middagh-Kimmel-More-Thorn-Leighty.	2213
							2219–2223
							2239
							2215
						*Robins-Johnson-Lewis-Clark-Cooper-Gee-Finley.	2214
							2224–2228
							2238
1,700						*Pilot flood.	2216
1,800	12.1	17.1	75	33.0	6.0 @ 84°F		2217
{1,428	8.0	18.4	95}	38.0	5.0 @ 85°F	*Was W. W. Holden. †Includes primary production since start of flood.	2207
{1,611	14.5	14.6	13}				
{1,632	15.0	18.5	17}				
2,450				35.0			704
550	15.0			37.0		*Estimated.	2501
						*No 1958 data.	2500
1,550	25.0			38.0		*Includes primary production since start of flood. Previously subjected to gas injection †Corrected to 1957 value.	1200
1,584	20.0	17.4	126	34.0			1201
1,530	15.0			34.0			1202
1,492	30.0					Previously subjected to gas injection. *Purchased from Carter Oil Co.	1203
1,500	30.0	20.0	105	38.0	2.6 @ 79°F	*12,661,371 bbls added for flood expansion 1958.	1204
1,522	20.0	19.0	120	32.4		*Estimated.	1205
1,454	10.0	18.0	43	38.7	5.2 @ 80°F	*Includes primary production since 7-57.	1206
1,560	35.0	18.0	200	36.0		*Since 1-56.	1207
	{20 0	19				Previously subjected to gas injection. *Total production.	1208
	{30.0						
1,450	27.0			38.0		*Purchased from Carter Oil Co.	1209
1,504	30.0					*Includes primary production.	1210
1,572	29.0						1211
1,550	16.0	20.0	200	38.0	5.0 @ 60°F	*Includes primary production since start of flood.	1212
1,540	20.0	21.1	150	37.6	5.8 @ 79°F	*Purchased from Carter Oil Co.	1213
1,550	30.0			36.0		*Includes primary production since 1-1-56. †Corrected figure. ‡Purchased from Shell Oil Co.	1214
1,550	30.0			36.0		*Purchased from Carter Oil Co.	1215
{1,500				37.5	4.0	*Includes primary production since 5-57.	1216
{1,560							
{1,580							
{1,450				37.0	4.0		1224
{1,525							
{1,550							
1,480	25.0	19.4	93				1217
1,550	21.0	21.0	180	36.6	4.7 @ 60°F		1218
1,550	18.4	20.4	164	36.6	4.7 @ 60°F	*Corrected to 1957 figure.	1219
	30.0			34.6		*Since 1-57.	1220
1,536*	40.0*	19.0*	250*	34.6		*Estimate.	1221
						*To be abandoned.	667
950	30.0	21.0	136	31.0	15.0 @ 75°F		602
930	25.0	21.0	125	30.8		Previously subjected to gas injection. *Includes primary production.	603
960	56.0	19.3	126	33.0		Previously subjected to gas injection	609
					10.0 @ 78°F	*No 1958 data.	605
900	50.0	17.0	170	34.0		Previously subjected to gas injection. *Estimate.	609
						Previously subjected to gas injection. *No 1957–1958 data.	610
900	20.0					*No data available to operator.	608
950	22.0	22.1	156	35.0	10.0 @ 78°F	*Formerly operated by Calvan-American.	606
950	15.0						669
950	21.0	19.5	77	33.0			611
950	22.0	22.3	156	35.0	10.0 @ 78°F	*Delayed drilling.	670
950	24.0	18.4	162	21.7	21.0 @ 60°F	*Includes cumulative injection and secondary production of former Yingling flood. †Estimated.	612
950	25.0	21.7	101	35.5	10.0 @ 78°F	*Data for 7-55 to 11-55 not included. †Estimated.	613
945	14.0	21.8	154	35 5	10.0 @ 78°F	*Pilot flood. †Estimate.	660
850	24.0	20.0	50	37.5	10.0 @ 78°F	Previously subjected to gas injection. *Since 1-1-56.	614
900	30.0	17.5	45	38.6			615
					10.0 @ 80°F	*No 1958 data.	616

TABLE 15.—

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	General Formation
617	Main C	Kewanee	Crawford	Wright	1–53	Robinson
618	Main C	A. J. Leverton*	Crawford	Stanford	6–52	Robinson
619	Main C	Logan	Crawford	Alexander-Reynolds	12–51	Robinson
620	Main C	Mahutska	Crawford	Oil Center	5–54	Robinson
621	Main C	Mahutska	Crawford	Eaton	—	Robinson
622	Main C	Mahutska	Crawford	C-T-L	—	Robinson
671	Main C	McDonnell	Crawford	Kirkland	1–58	Robinson
672	Main C	McDonnell	Crawford	Kirkland U	—	Robinson
623	Main C	Ohio	Crawford	20 Projects*	1948	Robinson
646-58, 673-678						
624	Main C	Partlow & Cochonour	Crawford	Rich U	10–54	Robinson
626	Main C	E. C. Reeves	Crawford	Billingsley	12–53	Robinson
659	Main C	G. C. Schoonmaker*	Crawford	Sanders	8–52	Robinson
627	Main C	Shakespeare	Crawford	McIntosh U	7–54	Robinson
628	Main C	Shakespeare	Crawford	Montgomery* U	5–54	Robinson
630	Main C	Tidewater	Crawford	Birch #1	8–54	Robinson
631	Main C	Tidewater	Crawford	Birds Area	2–52	Robinson
632	Main C	Tidewater	Crawford	Barrick-Walters*	3–54	Robinson
629	Main C	Tidewater	Crawford	Clark-Hulse	1–52	Robinson
633	Main C	Tidewater	Crawford	Good	9–57	Robinson
634	Main C	Tidewater	Crawford	W. A. Howard	2–52	Robinson
635	Main C	Tidewater	Crawford	Ames	9–57	Robinson
636	Main C	Tidewater	Crawford	Dennis-Hardin	8–50	Robinson
637	Main C	Tidewater	Crawford	G. L. Thompson	9–52	Robinson
638	Main C	Tidewater	Crawford	Henry-Ickmire	2–48	Robinson
668	Main C	Tidewater	Crawford	High Smith	8–56	Robinson
639	Main C	Tidewater	Crawford	Lefever-Musgrave	2–54	Robinson
640	Main C	Tidewater	Crawford	Montgomery-Seitzinger	5–54	Robinson
641	Main C	Tidewater	Crawford	Stifle-Drake	6–52	Robinson
642	Main C	Tidewater	Crawford	Stahl-Walters	11–54	Robinson
625	Main C	Frank T. Whittinghill*	Crawford	"D. I. M."	7–53	Robinson
607	Main C	Frank T. Whittinghill	Crawford	Mitchell	6–53	Robinson
643	Main C	Wilson	Crawford	Hughes-Walker	8–55	Robinson
644	Main C	Wiser*	Crawford	H. J. Musgrave	10–55	Robinson
645	Main C	Wyman*	Crawford	—	—	Robinson
1038	Maple Grove C	Ashland	Edwards	Bennington*	9–52	McClosky
1039	Maple Grove C	Investment Oil*	Edwards	Graede & Miller	7–55	McClosky
4127	Maple Grove C	Winmar	Wayne	W. Bennington	57	Aux Vases
2033	Markham City	Tidewater*	Jefferson	Newton†	8–55	McClosky
2004	Markham City W	Gulf	Jefferson	Markham City W	4–54	Aux Vases & McCloksy
214	Martinsville	Froderman & Connelly*	Clark	Froderman & Connelly	—	Partlow
1104	Mason N	Texas	Effingham	Mason North	10–58	Benoist
500	Mattoon	Carter	Coles	Mattoon	5–52	Rosiclare, Cypress
501	Mattoon	Nokill*	Coles	Mattoon	11–50	Rosiclare
4213	Maunie S	Magnolia	White	Palestine U	2–53	Palestine
4273	Maunie S	V. J. Wilson	White	Brown Alford	3–57	Cypress
4272	Maunie N	Schoonmaker	White	—	10–58	Aux Vases, McClosky
1505	Mill Shoals	B. Kidd	Hamilton	Gardner*	9–56	Aux Vases
1506	Mill Shoals	Sohio	Hamilton	B. R. Gray, Trustee	5–52	Aux Vases
3917	Mt. Carmel	G. S. Engle*	Wabash	G. Dunkel	6–52	Biehl
3918	Mt. Carmel	First Nat'l Pet. Trust	Wabash	Wabash U	10–57	McClosky
3919	Mt. Carmel	T. W. George	Wabash	N. Mt. Carmel	8–55	Cypress
3920	Mt. Carmel	T. W. George*	Wabash	—	—	Cypress
3921	Mt. Carmel	O'Meara Bros.*	Wabash	Mt. Carmel	7–54	Cypress
3922	Mt. Carmel	Shell	Wabash	Mt. Carmel U	7–54	Cypress
3923	Mt. Carmel	Skiles	Wabash	Chapman-Courter	1–55	Cypress
3924	Mt. Carmel	Skiles	Wabash	W. Mt. Carmel	10–55	Tar Springs
3925	Mt. Carmel	Texas	Wabash	Stein	2–52	Tar Springs
3926	New Harmony C	Ashland	Wabash	Maud N	4–56	Benoist
3927	New Harmony C	Ashland	Wabash	Ravenstein	5–57	Benoist
4214	New Harmony C	Arrow*	White	*	9–56	Aux Vases

(Continued)

Information				Production and injection statistics (thousand bbls.)						
Location		Curtailed during '58		Secondary recovery						Map No.
				Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	
23, 26	6N–13W			331	2,296	7.1	16	108	483	617
										618
20	7N–12W			510*	2,655	37.2	259	190*	725	519
9, 10, 11, 14, 15	6N–13W			1,688	5,847*	156.2	529*	720		620
2, 3, 10	7N–13W			603	782	40.4		24		621
27	6N–13W			*	*	0.0	0			622
5	6N–13W			339	339	0.0	0			671
6	6N–13W									672
				14,954	81,221	963.1	5,897	8,337	32,694	623
										646–658
										673–678
35, 36	6N–12W			543	1,337	12.6	41	271	632	624
34, 35	7N–13W			334	2,082	14 8	65	15	38	626
{1, 2, 3	5N–13W}			443	4,804	16.8	80	91†		659
{26, 34, 35	6N 13W}									
17. 18, 19, 20	6N–12W	x	x	115	396	3.1	18	79	241*	627
{32, 33	6N 12W}	x	x	73	516	1.9	18	32	177†	628
{4	5N–12W}									
14	6N–13W			254	2,118*	36.9	128*	75	212*	630
16, 20, 21	5N–11W			1,178	3,976*	101 9	297*	457	1,344*	631
19	7N–12W			1,343	2,840†	60.9	148†	151	319†	632
18	7N–13W			427	2,367*	19.5	214*	357	998*	629
16	6N–13W			170	190*	11.1	11*	21	21*	633
11	7N–13W			242	835*	18.0	74*	63	399*	634
29	7N–13W			56	80*	2.1	4*	14	25*	635
27, 34	6N–13W			428	3,580*	42.0	533*	368	2,117*	636
26, 27	6N–13W			91	748*	19.8	95*	128	328*	637
10 15	7N–13W			325	3,579*	14.5	447*	308	1.813*	638
20, 21	6N–12W			48	101*	18.1	29*	20	40*	668
13	7N–14W			161	716*	40.8	183*	53	128*	639
15, 16	5N–11W			192	650*	9.0	27*	55	157*	640
10	7N–13W			557	1,421*	13.5	75*	170	489*	641
13 14	7N–13W			60	272*	10.3	48†	52	176†	642
25, 26	6N–13W			471	2,488	13.8	63†	138		625
24, 25	7N–13W			135	739	14.9	71*	30	61	607
26	6N–13W			204	570	14.0	114*	54		643
18	7N–13W									644
34	6N–12W									645
7	1N–10E			66	413	22.0	118†			1008
8, 9	1N–10E									1009
13	1N– 9E			35	73	6.9	14*	8		4127
1	3S– 4E									2003
3, 4, 9, 10	3S– 4E			1,043	2,385	217.9	291*	910	1,465*	2004
13	9N–14W									214
9, 10	6N– 5E			27	27	0	0	0	0	1104
35	12N– 7E			1,024	6,566	81.1	455	682	2,519	500
22	12N– 7E									501
13, 18, 24	6S-10E, 11E			1,587	9,448	77 0	1,577*	1,725	6,876	4213
18	6S–11E			38	70	11.9	12	0	0	4273
2	6S–10E			29	29	0	0	0	0	4272
24	3S– 7E					5 2†	9†			1505
1	4S– 7E			760	1,680	18.0*	304*	194	688	1506
										3917
5	1S–12W			3	3	0	0	3	3	3918
4, 5	1S–12W			54	350	0	0	0	3	3919
32	1N–12W									3920
17	1S–12W									3921
17, 18	1S–12W			1,028	3,699	153.3	660	731	1,403	3922
7, 18	1S–12W			136	610	36 8	199	81	184	3923
18	1S–12W			114	371	8.8	75	59	96	3924
5, 8	1S–12W			118	648	4.9	84	118	444*	3925
5, 6, 7, 8	2S–13W			68	225	33 6	72*			3926
32	1S–13W			18	41	12.4	18			3927
{32, 33	3S–14W}			186	455					4214
{5	4S–14W}									

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
617	15	32	5-Spot		113	210	Penn.	B	4.0	550
618										
619	27	27	5-Spot		260	330	Cypress	B	2.4	420
620	84	92	5-Spot	4.4	400	700	Wells, Lake & Prod	F & B	2.8	380
621	42	35	5-Spot	10	380	400	Lake & Prod	F & B	2.6	370
622										
671	14	53	5-Spot	10	140	240	Gr & Prod	F & B	1.7	358
672	3	24	5-Spot	10	30	120	Gr & Purchased*	F & B	0	
623	588	640	5-Spot	10	3,802		Gr & Prod	F & B		
646-658, 673-678										
624	5	9	Line	5	100	120	Lake & Prod	F & B	24.8	650
626	6	8	5-Spot	10	115	350	Penn.	B	7.6	380
659	65	57	5-Spot	10	278	720	Water Well	B	0.9	390
627	4	8	Peripheral	4.7	39	88*	Penn. Sd	B	6.6	321
628	6	6	Mod. 5-Spot	10	52	85	Robinson Sd	B	3.2	660
630	9.7	8	5-Spot		61	90		F	5.1	272
631	40	81	5-Spot	10	462.5	694		B	4.5	490
632	33.5	49	5-Spot	10	336.5	480		F & B	5.8	290
629	14.7	21	5-Spot	7	82	124		F & B	4.0	536
633	4	40	5-Spot	10	42.5	231		F	5.8	292
634	9.5	19	5-Spot	10	75.5	165		F & B	5.4	380
635	2.25	8	5-Spot	10	22.4	168		F	3.4	550
636	10.5	11	5-Spot	10	92.7	94		F	3.3	365
637	4	7	5-Spot		40	40		F	3.0	449
638	23.7	36	5-Spot	4.4	114.2	210		F & B	2.7	574
668	.50	5	5-Spot		4.5	96		F & B	6.5	418
639	13	16	5-Spot	10	129.1	140		F & B	1.8	538
640	5.5	10	5-Spot		55	80		F & B	6.8	632
641	10.5	58	5-Spot		105	380		F & B	9.7	553
642	4	7	5-Spot		30	60		F	2.2	484
625	16	14	5-Spot		103	103	Prod & Br	F & B	7.9	410
607	13	19	5-Spot		70	213	Prod	F & B	1.9	550
643	9	15	Perimeter		40	40	Prod & Gr Bed	F & B	2.5	225
644										
645										
1008	2	5	Flank		110	110	Prod	B	18.0	
1009										
4127	1	5			30	40	Cypress Sd	B	6.4	1,000†
2003										
2004	13	14	Mod. 5-Spot	20	230	210	Prod & Cypress	B	5.9	510
					140	150				
214										
1104	4	6	Perimeter	10	100	280	Tar Springs & Prod	B	6.9	225
500	29	34	5-Spot		461	610	Sewage Eff. & Prod	F & B	7.4	825
501										
4213	34	23	5-Spot	20	448	616	Gr & Prod	F & B		
4273	2	2	5-Spot	20	40	40	Shallow Sd	F	5.2	1,710
4272	4	16		20	40	240		F	5.4	115
1505	1	2	Irregular	10	30	30	Hardinsburg	B		
1506	9	7	5-Spot	20	170	170	Gr Bed	F	7.2	260
3917										
3918	1	2			30	60	Prod	B	1.0	0
3919	3	4	Line		70	70	Well	F		1,150
3920										
3921										
3922	20	27	5-Spot	20	325	570	Surface Water*	F	10.4	490
3923	4	6	Peripheral		100	100	River & Prod	F & B	4.9	650
3924	3	3		10	70	40	Prod	B	17.3	1,420
3925	2	2	Flank	1	73	73	Sd & Prod	F & B	13.9	1,220
3926	5	6	Peripheral	20	130	160	Purchased	B	5.8	1,500
3927	1	2			20		Purchased		7.2	1,500
4214	9	11	5-Spot	20	163	323	River & Gr Bed	F	4.0	1,290

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
900	15.0	20.0	245			Previously subjected to gas injection.	617
						*No 1957–58 data.	618
940	22.0	20.5	167	36.0	7.0 @ 80°F	*Estimated.	619
925	20.0	19.0	175	33.0		Previously subjected to gas injection. *Estimated 1957 total production and injection.	620
980	15.0	20.0	150	33.0		Previously subjected to gas injection.	621
						*Injection wells operated by Ohio & W. Duncan.	622
800	40.0	20.1	143	34.6			671
800	40.0	20.1	143	34.6		*From Ohio Oil Co.'s Wood Plant.	672
						Some projects previously subjected to gas injection	623
						*Wilken, Hughes, Brubaker, Hill-Darough, Harjis, Reed, Drake, Fawley, Eaton, Henry, Wilson, Wood, Barnes, Kirkland, Mann, Hamilton, Shire, Fry, Ducommun, Thompson.	646–658 673–678
1,006	12.0	24.3	240	26.0			624
925	20.0	30.0	45				626
880	20.0	21.0	205	32.0		Previously subjected to gas injection. *Formerly owned by E. Constantin. †Estimate.	659
900	12.0			32.6	11.0 @ 75°F	Previously subjected to gas injection. *Estimated.	627
975	26.0	22.6	150	28.3	23.0 @ 71°F	*Abd. 5-58. †Estimate.	628
881	14.0	19.1	108	32.0		Subjected to gas injection since 1957. *Cumulative to 12-31-57 (has been changed to correspond with operator's data); injection data are net to project.	630
950	18.0	19.4	197	30.1		Subjected to gas injection 1946–1952. *As above.	631
950	19.0	20.0	152	35.0	7.0 @ 60°F	*H. Musgrave lease included. †As above.	632
910	20.0	19.9	278	34.0		*Same as above.	629
930	20.0	21.0	378	35.0		*As above.	633
950	13.0	19.6	184	35.3		Subjected to gas injection 1935–53. *As above.	634
980	20.0	20.0		35.0		*As above.	635
875	34.0	19.8	178	32.7		Subjected to gas injection 1932–50. *As above.	636
860	21.0	19.8	108	33.0		*As above.	637
935	14.0	21.0	17.5	35.0	7.0 @ 60°F	Subjected to gas injection 1934–48. *As above.	638
920	20.0	20.0	80	35.0		*As above.	668
910	20.0	20.0	250	34.0		*As above.	639
979	14.0	19.0	144	32.0		*As above.	640
980	15.0	18.2	221	33.5		Subjected to gas injection since 1934. *As above.	641
987	19.0	20.0	100	35.0		*As above.	642
830	10.5	21.2	98	30.0-40.0	17.9 @ 78°F	Previously subjected to gas injection. *Formerly operated by Red Head Oil. †Since 1-54.	625
900	14.0	21.1	77	33.5	10.0 @ 78°F	*Includes primary production since 1-53.	607
880	25.0	19.0	83	32.0		Previously subjected to gas injection. *Estimated since 1951.	643
						*No 1958 data.	644
						*No 1957–58 data.	645
3,100	5.0	0	0	38.0		*Controlled dump flood. †Includes primary production since 9-52.	1008
						*No 1958 data. †Dump flood.	1009
3,150	15.0	22.0-26.0	50	37.0		*Includes primary production since 5-57. †Estimated dump flood.	4127
						*No 1958 data. †Dump flood.	2003
2,900	22.1		269	38.0	3.2 @ 99°F	*Corrected to 1957 value.	2004
3,000	15.4		230		2.8 @ 104°F		
						*No 1958 data available.	214
2,280	11.0	16.0	24	37.0-38.2			1104
1,750	13.0	16.0	84	39.0	1.7 @ 85°F		500
1,950						*No 1957-58 data available.	501
2,010				39.6		*Includes primary production since 2-53.	4213
2,582	10.0						4273
2,940	15.0			35.0			4272
3,243	11.0					*Dump flood. †Includes primary production since 1-57.	1505
3,245	11.0	21.0		37.0		*Includes primary production since 5-52.	1506
					3.9 @ 104°F	*No 1957–58 data available.	3917
2,307	8.0						3918
							3919
						*No 1957–58 data available.	3920
						*No 1957–58 data available.	3921
2,075	13.6	19.0	182	38.8		*Prior to 4-57, fresh and brine used for injection.	3922
2,230	19.0	18.2	147				3923
1,729	6.0						3924
2,040	11.6	18.9	221	34.8	4.0	*Corrected to 1957 value.	3925
2,650	6.5	16.0	60			*Includes primary production since start of flood.	3926
2,650	7.0	16.0	65				3927
2,800	14.3	13.3	2	33.7	4.7 @ 97°F	*Arrow-McBride-Hon-Bump-Crawford water flood.	4214

TABLE 15.—

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	Formation
						General
4215	New Harmony C	Arrow*	White	*	9–56	Benoist
4216	New Harmony C	Arrow*	White	*	9–56	L. Cypress
4217	New Harmony C	Arrow*	White	*	9–56	M. McClosky
4218	New Harmony C	Calstar	White	Ford	1–56	Aux Vases
4219	New Harmony C	Calstar	White	Ford "B"*	3–53	Bethel
3928	New Harmony C	Cities Service	Wabash	Barnes U	8–56	Benoist
4220	New Harmony C	Clark & Clark*	White	Maunie N. U	9–57	Aux Vases
4221	New Harmony C	Coy*	White	—	—	Cypress & Aux Vases
3907	New Harmony C	T. W. George*	Wabash	E. Maud	7–52	Bethel
3947	New Harmony C	T. W. George*	Wabash	E. Maud	1–55	Cypress
4224	New Harmony C	Herndon & Ashland	White	Calvin	11–52	Aux Vases
4225	New Harmony C	Herndon	White	Calvin	—	Benoist
4226	New Harmony C	Herndon	White	Calvin	6–57	Cypress
3955	New Harmony C	Ind. Farm Bureau	White	Landis Goins	3–57	Cypress
4227	New Harmony C	Inland*	White	Bowhan's Bend U	12–53	Tar Springs
3936	New Harmony C	Luboil	Wabash	Helm	11–54	Cypress "A"
3937	New Harmony C	Luboil	Wabash	Helm	10–54	Cypress "C"
3938	New Harmony C	Luboil	Wabash	Helm	12–51	Aux Vases
3939	New Harmony C	Luboil	Wabash	Helm	12–51	Benoist
3940	New Harmony C	Luboil	Wabash	Helm	12–50	Waltersburg
4274	New Harmony C	Magnolia	White	Bond	5–56	Cypress, Paint Creek, Aux Vases
3929	New Harmony C	Phillips	Wabash	Shultz Lease	7–51	L. Cypress
3930	New Harmony C	Phillips	Wabash	Shultz Lease	5–52	U. Cypress
4275	New Harmony C	Pure	White	Calvin Cons.	9–58	Tar Springs, Cypress, Paint Creek, Aux Vases
4231	New Harmony C	Sinclair	White	M. S. Donald	10–56	Aux Vases
3957	New Harmony C	Skiles	Wabash	Broster "F"	10–56	Cypress
3931	New Harmony C	Skiles	Wabash, Edwards	Siegert Bottoms	10–51	Bethel
1016	New Harmony	Skiles	Edwards	Siegert Bottoms	8–58	Cypress
3932	New Harmony C	Skiles	Wabash	E. Maud	4–52	Bethel
3933	New Harmony C	Skiles	Wabash	E. Maud	11–52	Cypress
3934	New Harmony C	Skiles	Wabash	W. Maud	10–50	Bethel, Benoist
3956	New Harmony C	Skiles	Wabash	Raber-Cowling	5–57	Benoist
3935	New Harmony C	Sohio	Wabash	Updegraff "A"	10–55	Cypress
4233	New Harmony C	Sun	White	Ford "B"*	3–53	Aux Vases
4234	New Harmony C	Sun	White	Ford "B"*	3–53	Bethel
4235	New Harmony C	Superior	White	Kern-How U	2–54	Tar Springs
4236	New Harmony C	Superior	White, Ill. Posey, Ind.	New Harmony U	11–56	Aux Vases
4237	New Harmony C	Superior	White, Ill. Posey, Ind.	New Harmony U	11–56	Bethel
4238	New Harmony C	Superior	White, Ill. Posey, Ind.	Waltersburg, U	8–46	Waltersburg
3948	New Harmony C	Swan	Wabash	—	—	Cypress
4240	New Harmony C	Tidewater	White	E. S. Dennis "A"	7–51	Bethel
4244	New Harmony C	Tidewater	White	E. S. Dennis "A"	9–57	Aux Vases
4242	New Harmony C	Tidewater	White	Evans	10–49	Biehl
4241	New Harmony C	Tidewater	White	Evans	1–56	Aux Vases
4243	New Harmony C	Tidewater	White	Evans	50	McClosky
3949	New Harmony C	West*	Wabash	C. W. Raber	10–56	Biehl
4247	New Haven C	Hiawatha	White	New Haven	7–54	Cypress
4248	New Haven C	Hiawatha	White	New Haven	7–54	Tar Springs
2600	Odin	Ashland	Marion	Odin	10–49	Cypress
000	Old Ripley	Cahill & Smith	Bond	Ripley	9–57	Penn.
3498	Olney C	Texas	Richland	E. Olney	3–51	McClosky
307	Oskaloosa	Texas	Clay	Oskaloosa	1–53	Benoist
3499	Parkersburg C	Ohio	Richland	Parkersburg U	3–55	McClosky
3417	Parkersburg C	Ohio	Richland	Noble Co-op U	8–54	McClosky
308	Passport	Magnolia	Clay	Stanley-Hinterscher-Malin U	9–57	McClosky
327	Passport	Shakespeare	Clay	Passport U	7–58	McClosky
2601	Patoka	Sohio	Marion	Patoka Benoist	9–43	Benoist
2602	Patoka	Sohio	Marion	Patoka Rosiclare	48	Rosiclare
2603	Patoka	Sohio	Marion	Stein U	8–51	Cypress
4249	Phillipstown C	C. E. Brehm	White	Phillipstown U "B"	1–54	Cypress

(Continued)

Information				Production and injection statistics (thousand bbls.)						Map No.
				Secondary recovery						
Location		Curtailed during '58		Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	Total 1958	Cumulative 12–31–58	
32	3S–14W			189	400					4215
33	3S–14W			177	353					4216
{32, 33 / 5	3S–14W / 4S–14W}			177	582					4217
21, 22	4S–14W			323	1,242*	95.9	225*			4218
21	4S–14W			149	1,013	9.2	90†			4219
20, 21, 28, 29	1S–13W			1,027	2,318	429.6	587	157	197	3928
18, 19	6S–14W									4220
17	4S–14W									4221
32, 33	1S–13W									3907
32, 33	1S–13W									3947
5, 8	4S–14W			1,043	4,069	136.4*				4224
8	4S–14W			399	1,261	*				4225
8	4S–14W			87	114	*				4226
3	2S–13W			32	48	4.6*	8†	42		3955
15, 16, 21, 22	5S–14W									4227
22	3S–14W			277*	894*	250.9*	2,558*	1,000*	*	3936
22	3S–14W			247	930	*	*	*	*	3937
22	3S–14W			551	3,043	*	*	*	*	3938
22	3S–14W			621	4,469	*	*	*	*	3939
22	3S–14W			382	2,012	*	*	*	*	3940
8	4S–14W			*	*	19.4†	82†			4274
7	3S–13W			124	2,589	5.8	124	72	1,953	3929
7	3S–14W			20	810	1.2	43	16	345	3930
9, 16	4S–14W					20.5	21	22	22	4275
21, 28	4S–14W			192	433	7.8	11	7	11	4231
35	2S–14W			20	53	3.8	6	3	3	3957
2, 3, 19	3S–14W			266	2,172	51.3	487	114	416	3931
34	2S–14W			13	13	0	0	0	0	1016
{4, 5 / 32, 33	2S–13W / 1S–13W}			124	892	22.3	203	39	167	3932
{4, 5 / 32, 33	2S–13W / 1S–13W}			151	741	15.5	84	37	269	3933
5, 7	2S–13W			135	1,859	16.0	341	31	313	3934
17	2S–13W			7	14	.4	0	4	4	3956
14	3S–14W			259	600	229.8	793*	259	600	3935
21	4S–14W			48	239	43.1	79	44	72	4233
21	4S–14W			65	495	0.3†	50	7	199	4234
32, 33	4S–14W			136	801	47.3	357	60	243	4235
22, 33, 34	4S–14W			2,100	3,616	*	*	*	*	4236
27, 33, 34	4S–14W			3,810*	10,330*†	610.8*†	1,408*†	1,023*‡	5,859*‡	4237
4, 5, 9, 10	5S–14W			2,397*	20,855*	230.4*	3,823*	1,388*	5,195*	4238
7, 18	3S–13W									3948
28, 33	4S–14W			321*	7,305*	5.1*	438*	104*	1,801*	4240
28, 33	4S–14W			592	679	145.1	155	74	74	4244
4	4S–14W			702*	2,422*	66.1*	289*	211*	504*	4242
4	4S–14W			*	*	*	*	*	*	4241
4	4S–14W			*	*	*	*	*	*	4243
{19 / 24	2S–13W / 2S–14W}									3949
17	7S–11E			123	647	84.6*	332*	9	22	4247
17	7S–11E			1	88	0.8*	29	1	5	4248
{1, 12, 13 / 6, 7, 18	2N– 1E / 2N– 2E}			745	4,610	38.0	1,233			2600
21	5N– 4W			75	91*	0.2*	0	12*	12*	000
23, 24, 25, 26	4N–10E			296	1,747	31.9	149	155	470*	3408
26, 27, 34, 35	4N– 5E			523	4,173	103.0	849	223	1,170*	307
29	2N–14W			1,088*	3,989*	48.7*	379*	754*	2,240*	3409
8	3N– 9E			*	*	*	*	*	*	3417
12	4N– 8E			49	65	2.0	3*	2	3	308
11, 12, 14	4N– 8E			296	296	2.9	3	3	3	327
20, 21, 28, 29	4N– 1E			2,896	48,745	51.1	6,347	2,610	34,534	2601
21, 28, 29	4N– 1E			620	6,123	35.5	1,375*	306	2,079	2602
28	4N– 1E			99	723	2.6	55*	63	486	2603
19	4S–14W	x	x	32*	131*	7.8	124†			4249

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
4215	4	4	5-Spot	20	50	131	River & Gr Bed	F	12.0	1,250
4216	3	5	5-Spot	20	45	165	River & Gr Bed	F	18.2	1,245
4217	4	7	5-Spot	20	85	302	River Gr Bed	F	12.9	0
4218	7	7	5-Spot	10	95	215	Gr Bed	F	6.9	1,200
4219	1	3		20	20	35	Gr Bed	F	34.0	1,440
3928	28	34	5-Spot	10	524	610	Prod & Penn. Sd	B	5.9	1,080
4220										
4221										
3907										
3947										
4224	19	18	Line wells		200	250			5.0	990
4225	10	8			90	90			7.3	950
4226	3								5.3	1,000
3955	1	2			20		Prod	B		960
4227										
3936	6	11			120	120	Gr Beds	F		1,000
3937	4	11			120	120	Gr Beds	F		1,200
3938	19	26			260	260	Gr Beds	F	5.7	1,200
3939	32	29			255	255	Gr Beds	F	3.8	1,200
3940	4	3			30	30	Gr Beds	F	10.5	1,200
4274	4‡	12	Irregular		13	120	Shallow Sand & Prod	F & B		
3929	1	2	Irregular	10	30	70	Shallow Fresh & Prod	F & B	17.0	358
3930	1	2		10	30	30	Shallow Fresh & Prod	F & B	22.5	194
4275	13	15	5-Spot	20	280	280	Gr Bed	F		
4231	2	10	Peripheral		105	123.4	Prod & water supply well	F & B	9.4	1,000
3957	1	3			30	40	Gr & Prod	F & B	4.2	1,350
3931	19	23	5-Spot		380	430	Gr & Prod	F & B	2.1	1,490
1016	1	2	5-Spot	20	15	30	Gr & Prod	F & B	7.5	460
3932	9	17	5-Spot		250	280	Creek & Sd	F & B	4.4	1,500
3933	2	9	5-Spot		20	100	Creek & Shallow Sd	F	25.9	500
3934	12	13	5-Spot	20	340	430	Creek & Shallow Sd	F	2.6	1,425
3956	1	4	Line		35	50	Creek & Shallow Sd	F & B	1.3	1,420
3935	1	12	Line	10	120	200	Prod	B	28.4	200
4233	1	1		20	20	80	Gr Bed	F	13.0	1,475
4234	1	4			20	20	Gr Bed	F	14.8	1,300
4235	3	6	Mod. Split Line		121	121	Gr Bed	F	9.3	1,150
4236	Av. 9 Dual 45	75	5-Spot	20	2,029	2,029	Gr & Prod		71.8	1,025
4237	28 Bethel 45 Dual	111	5-Spot	20	2,576	2,576	Gr & Prod	F & B	30.1	950
4238	6	12	Split Line		725	725	Gr Bed & Prod		25.4	1,150
3948										
4240	9	4	5-Spot		160	185	Shallow Gr	F	3.3	1,450
4244	18	16	5-Spot	10	160	160	Gr	F	6.0	1,450
4242	8	11	5-Spot	20	167	167	Shallow Gr	F	12.0	1,400
4241	*	*	5-Spot	20	169	167	Gr	F	*	1,600
4243	*	*	5-Spot	20	167	169	Gr	F	*	1,400
3949										
4247	8	12			390	447	Well	F	4.2	1,200
4248	2	4			360	447	Well	F	0.2	1,200
2600	11	19	Perimeter		230	290	Tar Springs	B	12.4	975
000	4	11	5-Spot		120	120	Fresh & Prod	F & B	2.8	470
3408	3	18			458	458	Penn. & Prod	F & B	51.0	1,072
307	10	32	Perimeter	10	407	407	Penn. & Prod	B	10.1	1,245
3409	9*	12*			350*	350*	Cypress & Prod	B		
3417	*	*			*	*	Cypress & Prod	B		
308	1	2	Irregular		10	60	Cypress Sd	B		
327	5	24	Peripheral	10	305	305	Cypress	B	26.8	*
2601	49	49	5-Spot	10	527	527	Tar Springs	B	6.0	31ℓ
2602	15	12	Perimeter		445	445	Tar Springs	B	12.6	460
2603	6	2	Peripheral		61	61	Tar Springs	B	4.5	575
4249	2	5	Irregular		80	80	Penn.	B	7.3	813

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,650	10.8	12.7	3.1	37.5	4.5 @ 96°F	*Same as 4214.	4215
2,600	8.9	15.6	8.3	34.5	6.0 @ 96°F	*Same as 4214.	4216
2,900	9.4			34.5	4.2 @ 98°F	*Same as 4214.	4217
2,840	18.3	15.0	20	33.1	4.8 @ 70°F	*Includes injection and production since pilot flood 3-53.	4218
2,695	12.0			37.5	3.7 @ 96°F	*Co-op Pilot Flood with Sun. †Corrected figure.	4219
2,600	17.0	16.0	35	35.0			3928
						*No 1958 data available.	4220
						*No 1957-58 data available.	4221
2,500	15.0	17.0	57	36.1	5.1 @ 94°F	*This part of this unit has been abandoned.	3907
2,400	12.0					*This part of this unit has been abandoned.	3947
2,800	30.0	14.0	10	41.0		*Includes Cypress & Benoist production. Previously subjected to gas injection.	4224
2,700	15.0					*Included in 4224.	4225
	15.0					*Included in 4224.	4226
2,340				36.0-52.0		*Presently a disposal project; will be included in waterflood program at a later date. †Total oil production.	3955
						*No 1958 data available.	4227
						*Includes Cypress "C", Aux Vases, Benoist, and Waltersburg production.	3936
						*Included with Cypress "A".	3937
2,640	14.0	17.1	44			*Included with Cypress "A".	3938
2,640	14.0	17.1	44			*Included with Cypress "A".	3939
2,115	25.0	20.1	171			*Included with Cypress "A".	3940
{2,585				35.0	4.0 @ 100°F	*All water injected by 4 Herndon operated line wells.	4274
{2,705						†Estimated. ‡Line wells.	
{2,820							
2,600	20.0	18.0	50	38.0			3929
2,500	10.0	17.0	100	38.0			3930
{2,208	10.0	18.0	50				4275
{2,579	6.5	17.0	40				
{2,694	11.0	17.0	50				
{2,812	18.0	18.0	70				
2,838	28.0			36.0			4231
2,531	13.0						3957
2,680	18.0	17.0	75	36.5	3.8 @ 81°F		3931
2,566	12.0						1016
2,520	8.5	17.0	57	36.1	5.1 @ 94°F		3932
2,400	8.0	13.5	75	36.2	5.0 @ 90°F		3933
2,620	12.0	17.2	57	37.0	4.6		3934
2,549	15.0						3956
2,500	25.0	21.0	200	37.0		*Total Lease Production—Cypress, Benoist, Aux Vases and McCloskey commingled.	3935
2,855	10.0	13.0	30	32.5		*Cooperative flood with Calstar.	4233
2,696	12.0			32.5		*Cooperative flood with Calstar. †Abandoned 5-58.	4234
2,250	13.3	17.3	44	38.0	5.5 @ 85°F		4235
2,460	8.9	17.9	48	36.4	3.7 @ 96°F	*Included with 4237.	4236
2,340	12.4	15.4	32	36.8	4.3 @ 94°F	*Figure includes cumulative injection and secondary production prior to unit operation. †Included in 4236. ‡Cumulative water production from all zones within unit area.	4237
2,206	43.0	19.2	475	36.8	2.9 @ 86°F	Previously subjected to gas injection. *Includes Indiana data.	4238
						*No 1957-58 data available.	3948
2,700	30.0	16.0	50	39.0	2.2 @ 92°F	Previously subjected to gas injection. *Cumulative for all Tidewater operated wells in this field.	4240
2,800	15.0						4244
1,850	16.0					*Includes 4241 and 4243.	4242
2,800	24.0					Previously subjected to gas injection. *Included with 4242.	4241
2,900	20.0					Previously subjected to gas injection. *Included with 4242.	4243
						*No 1957-58 data available.	3949
2,445	10.0					*Includes primary production since 7-54.	4247
2,110	11.0					*As above.	4248
1,700	15.0	20.0	78	38.0	8.3 @ 69°F		2600
600	18.0			36.5		*Estimates.	000
3,100	5.3	13.8	522	37.0	2.6 @ 99°F	*Corrected to 1957 value.	3408
2,600	14.2	15.6	54	37.0-38.0	6.4 @ 60°F	*Same as above.	307
3,100						*Includes Ohio Noble Co-op. Unit 3417.	3409
2,500						*Included with Ohio Parkersburg Unit 3409.	3417
3,015				35.9		*Includes primary production since 9-57.	308
3,000	10.0	16.9	900†	38.2	3.0 @ 102°F	*Dump flood. †Estimate.	327
1,410	27.0	19.0	110	39.0			2601
1,550	9.0	18.8	223	40.1	4.1	*Includes primary production since 1948.	2602
1,280	10.0	21.0	32	39.0	5.5 @ 60°F	*Includes primary production since 8-51.	2603
2,750	12.0					*Injection shut down 6-56 thru 6-58. †Includes primary production since 1-54.	4249

TABLE 15.—

Map No.	Field C=Consolidated	Operator	County	Project U=Unit	Date first injection	General Formation
4250	Phillipstown C	Bristol	White	Grayville	8-54	L. Cypress
4251	Phillipstown C	British American	White	N. Calvin	6-51	Penn. #7
4252	Phillipstown C	Magnolia	White	N. Calvin	5-51	Bichl
4253	Phillipstown C	Phillips U	White	Flora U	9-53	Degonia
4254	Phillipstown C	Phillips	White	Laura	3-52	Bethel
4255	Phillipstown C	Phillips U	White	Phillipstown U	10-57	Benoist Aux Vases
4256	Phillipstown C	Sun	White	Phillipstown	12-55	Clore
4257	Phillipstown C	Sun	White	Phillipstown	2-56	Tar Springs
4258	Roland C	Carter	White	S.W. Roland U	6-55	Waltersburg
4259	Roland C	Carter	White	Stokes U	7-54	Hardinsburg
4262	Roland C	T. W. George	White & Gallatin	Pankey-Morehead U	10-56	Cypress
1413	Roland C	Ind. Farm Bureau	Gallatin	Omaha	3-53	Waltersburg
4260	Roland C	Pure	White	Stokes-Brownsville	4-56	Hardinsburg
4261	Roland C	Shell	White	Iron U	12-50	Hardinsburg
2218	St. Francisville E	J. E. Bauer	Laurence	All State Life U	11-57	Benoist
1222	St. James	H. Rosenthal	Fayette	Washburn	3-54	Cypress
1905	Ste. Marie	J. R. Randolph	Jasper	Ste. Marie	10-48	McClosky
1100	Sailor Springs C	Ashland	Effingham	Bible Grove	7-54	Rosiclare, McClosky
318	Sailor Springs C	Ashland	Clay	E. Flora	11-56	McClosky
328	Sailor Springs C	Ashland	Clay	Sailor Springs	4-58	Cypress & Tar Springs
319	Sailor Springs C	Breur & Currin	Clay			Ohara
309	Sailor Springs C	Cities Service	Clay	Wyatt	9-53	Aux Vases
1102	Sailor Springs C	W. Duncan	Effingham	Brink	12-57	Cypress
310	Sailor Springs C	Gulf	Clay	R. Keck	9-57	Cypress
1103	Sailor Springs C	Kingwood	Effingham	Nadler	6-55	Rosiclare, McClosky
311	Sailor Springs C	Magnolia	Clay	Sailor Springs U	3-55	Cypress
312	Sailor Springs C	W. C. McBride	Clay	Goldsby-Lickey	9-55	Cypress
313	Sailor Springs C	W. C. McBride	Clay	Duff-Keck	7-53	Cypress
314	Sailor Springs C	Phillips	Clay	Bothwell	8-56	Cypress
315	Sailor Springs C	Saulman Bros.	Clay	Colclasure	7-57	Cypress
316	Sailor Springs C	Shulman Bros.	Clay	Neff*	1-57	McClosky
329	Sailor Springs C	Skiles	Clay	N. Sailor Springs	11-56	Rosiclare
2604	Salem C	Texas	Marion	Rosiclare Sand U	4-50	Rosiclare
2605	Salem C	Texas	Marion	Salem U	10-50	Benoist
2606	Salem C	Texas	Marion	Salem U	10-50	Devonian
2607	Salem C	Texas	Marion	Salem U	4-51	McClosky
2608	Salem C	Texas	Marion	Salem U	10-50	Renault & Aux Vases
1010	Samsville N	Ashland	Edwards	W. Salem*	9-54	Bethel
3410	Seminary	R. Johnson*	Richland	Seminary	2-54	McClosky
1306	Sesser	W. I. Lewis	Franklin	Sesser U	8-58	Renault
700	Siggins	Bell Bros.	Cumberland	Flood #1	9-50	U. Siggins
701	Siggins	Leland Fikes*	Cumberland	Vevay Park	1-50	Siggins
702	Siggins	Forest	Cumberland	Siggins	6-42	1st Siggins
215	Siggins	General Operations	Clark, Cumberland	Siggins	12-51	Casey
216	Siggins	Pure	Clark, Cumberland	Union Group	12-46	1st & 2nd Siggins
003	Sorento	Simpkins*	Bond	—	—	Devonian
317	Stanford S	Gulf	Clay	S. Stanford	5-54	Aux Vases
4263	Storms C	Sinclair	White	Storms U	3-56	Waltersburg
3411	Stringtown	N. C. Davies	Richland	Stringtown	12-53	McClosky
3412	Stringtown	Helmerich & Payne*	Richland	Stringtown	10-54	McClosky
3413	Stringtown	Skelly*	Richland	Stringtown	12-53	McClosky
3414	Stringtown	Steber*	Richland			Aux Vases
1302	Thompsonville E	Carter	Franklin	E. Thompsonville	7-54	Aux Vases
1303	Thompsonville N	Carter	Franklin	N. Thompsonville U	10-55	Aux Vases
1304	Thompsonville N	J. & W.	Franklin	N. Thompsonville U	1-56	Aux Vases
1305	Thompsonville N	J. & W.	Franklin	Thompsonville U	3-54	Aux Vases
2609	Tonti S	Tamarack*	Marion	Branch	12-53	McClosky, Benoist
2610	Wamac	D. Stinson*	Marion	Wamac	5-54	Petro
2611	Wamac	Wamac	Marion	Wamac	7-57	Petro
502	Westfield	General Operations	Coles, Clark	Johnson	6-51	"Gas Sd"
1906	Willow Hill E	Pure	Jasper	Willow Hill U	8-57	McClosky
002	Woburn C	Arrow*	—	—	—	Benoist
1301	West Frankfort	Shell	Franklin	W. Franklin U	11-57	Tar Springs
703	York	Trans-Southern	Cumberland	York	10-50	Casey

(Continued)

Information				Production and injection statistics (thousand bbls.)						Map No.
				Secondary recovery						
Location		Curtailed during '58		Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	
20, 29	3S-14W		x	64	397	16.5	84*	25		4250
31	3S-14W	x	x	244	2,413	40.7	1,087*	334	1,479	4251
30, 31	3S-11E			113	1,113	11.0	415*	70	458	4252
24	4S-10E			160	713	4.3	67	83	329	4253
19	4S-11E			34	114*	1.3	2	3	4	4254
30	4S-11E			420	550	15.2	15.4	57	62	4255
6	5S-11E			62	174	22.3	95	44	48	4256
6	5S-11E			11	47	0	0	0	0	4257
14, 15, 16	7S- 8E			2,068	6,089	205.4	282	344	532	4258
5	6S- 9E			547	2,207	61.4	413	360	666	4259
17, 20	7S- 8E			*	*	0	0			4262
20, 21, 28, 29	7S- 8E			1,343	6,254	148.6	955*	756	2,210	1413
36	5S- 8E			1,842	5,120	581.3	1,251	544	694	4260
31, 32	5S- 9E									
1, 12	6S- 8E									
23, 24, 25	6S- 8E			1,112	8,935	141.1	1,669	966	3,966	4261
22	2N-11W	x		303	351	21.5	22	303	351	2218
30	6N- 3E			126	460*	27.5†	147†	126	460*	1222
5, 6, 7, 8	5N-14W			73*	1,833*	10.2	182†	1	61‡	1905
28, 29	6N- 7E			296*	951*	28.2	76†			1100
16, 21	3N- 7E			151	301	34.1	53*			318
26	4N- 7E			195	195	1.4	1			328
18	3N- 7E	x		580	1,634*	69.2	190	480		319
13	5N- 7E			202	565	4.2	34	71	299	309
34	6N- 7E			94	99	1.2	1	0	0	1102
26	4N- 7E			28	39	9.4	12*	15	20	310
28	6N- 7E			204*	586*	7.0	48†	88	218	1103
14, 15, 23	4N- 7E			506	2,147	84.0	488*	266	857	311
34	4N- 7E			93	260	3.3	10	48	80*	312
26, 35	4N- 7E	x		234	528	23.9	76	98	152*†	313
14	3N- 7E			30	79	2.1	3	0	0	314
10	3N- 7E			82	105	6.7	7	90	102	315
16	3N- 7E			36	51	0	0	0†	1†	316
2	4N- 7E			51	51	11.9	26	75	155	329
35	5N- 7E									
15	1N- 2E			159	1,488	7.3	84	12	177*	2604
	1N, 2N-2E			40,400	187,724	3,521.7	17,550	21,396	74,864*	2605
	1N, 2N-2E			3,208	47,344	57.6	516	1,518	14,151*	2606
	1N, 2N-2E			19,044	76,065	1,381.8	4,400	5,711	22,785*	2607
	1N, 2N-2E			9,824	36,700	528.6	1,451	1,314	6,984*	2608
30	1N-14W			92	303	0.6	7†			1010
17, 20	2N-10E			†	†	0.9	25	2	290‡	3410
17, 19, 20	5S- 2E			57	57	0	0	2	2	1306
13	10N-10E			29	377*	15.8	138	63	193	700
35	10N-14W									701
7, 11, 12	10N-11E			3,669	49,661	590.5	8,560			702
13, 14	10N-10E									
7	10N-14W			224*	2,016*	30.7*	179*	161*	413*†	215
7	10N-11E									
{18	10N-14W}			1,093	15,236	73.1	2,343	1,263	11,920	216
{18	10N-11E}									
17	6N- 4W									003
2, 9, 16, 17	2N- 7E	x		428	2,805	9.0	377	164	946*	317
	6S- 9E			2,210	5,983	5.0	19	73	1,227	4263
31	5N-14W	x		40	257	5.6	19*	68	289	3411
31	5N-14W				171†		5†		57†	3412
31	5N-14W									3413
31	5N-14W									3414
12	7S- 4E			177	657	23.1	90	124	333*	1302
3, 9, 10	7S- 4E			366	1,331	111.0	261	114	279	1303
9	7S- 4E			297	926	150.9	283	94	115	1304
10, 15	7S- 4E			91	642	2.9	23	4	44	1305
4	7N- 2E						88†			2609
30	1N- 1E									2610
19, 30	1N- 1E			183	234	12.5	16	55	63	2611
7, 18, 19	11N-11E			101	205	1.6	13	25	75*	502
18	11N-14W									
6	6N-11E			51	70	2.5	4	13	13	1906
										002
18, 19	7S- 3E			718	785	131.2	132	17	18	1301
6	9N-11E			30	611	1.2	15	30	240	703

TABLE 15.—

Map No.	Development as of 12-31-58						Injection water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
	Inj.	Prod.			Subjected to inj.	Total				
4250	4	5	Flank		128	128	Purchased	F	4.6	1,450
4251	10	17	5-Spot	10	130	130	Prod	B	2.3	830
4252	2	7	5-Spot	20	53	120	Prod & Shallow Sd	F & B		
4253	2	5	5-Spot	10	25	70	Prod & Shallow Sd	F & B	14.6	1,300
4254	1	5			18	40	Prod	B	9.4	1,300
4255	6	12	5-Spot	10	112	180	Penn. & Prod	B	12.8	1,590
4256	1	5			50	135	Prod	B	16.9	420
4257	1	4			40	135	Prod	B	4.5	1,450
4258	7	22	Flank		556	577	Penn.	B	62.3	100
4259	7	7	5-Spot		109	205	Penn.	B	18.4	750
4252	2	2	5-Spot	10	40			B		0
1413	13	18	Flank	10	336	336	Prod & Water Supply	F & B	20.2	1,200
4260	37	31	5-Spot	16	590	1,360	Prod & Penn. Sand	B	8.8	650
4261	20	23	5-Spot	20	390	430	Tar Springs*	B	6.1	464
2218	5	6	Irregular	10	160	160	Prod	B	6.2	1,150
1222	3	9			95	95	Prod	B	5.8	200
1905	1	14				500			28.6	
1100	5	11	Irregular		180		Cypress & Tar Springs	B	18.0	
318	3	9		40	100	100	Prod	B	22.9	0
328	2	8			100 Cyp 150 T.S.	180	Prod	B	19.1	1,000
319	4	13	Peripheral	10	186	186	Prod & Well	F & B	23.4	500
309	2	2	Irregular	10	10	40	Prod & Hardinsburg	B	30.1	735
1102	1	3			40	40	Penn. Sd	B	36.6	350
310	1	1		10			Prod	B	7.6	1,060
1103	3	3	Perimeter	20	120	120	Cypress	B	12.4	
311	11	23			202	350	Prod & Penn. Sd	B		
312	1	3	5-Spot	10	10	40	Prod	B	17.0	225
313	5	9	5-Spot	20	150	150	Prod & Penn.	B	10.7	940
314	1	1		10	20	20	Prod	B	8.3	
315	1	5	Line well	80	80	80		B	15.0	1,000
316	1	1		20	40	40	Tar Springs	B	19.7	*9,500
329	1	8	Line		60	120	Prod	B	23.5	0
2604	3	3	Flank	10	100	100	Prod & Penn.	B	10.4	833
2605	215	371	Peripheral—5-Spot	20	7,975	7,975	Gr & Prod	F & B	18.4	678
2606	24	23	Peripheral		5,414	5,414	Gr, Sd & Prod	F & B	19.3	
2607	138	262	Peripheral		7,712	7,712	Gr & Prod	F & B	18.9	650
2608	80	65	Peripheral		4,881	4,881	Gr & Prod	F & B	3.5	770
1010	1	1			20	35	Prod	B	50.3	600
3410	1	1			20	160	Cypress	B		
1306	5	5	Line & Peripheral		200	220	Lake	F	16.0	30
700	9	15	5-Spot	5.3	80	80	Prod	B	.5	220
701										
702	493	475	5-Spot		1,800		Gr Beds & Prod	F & B*	.6	200
215	24	26	5-Spot		118	260	Lake & Prod	F & B	0.5	250
216	102	93	5-Spot	3.7	468	468	Prod	B	0.9	245
003										
317	9	7	5-Spot	20	125	170	Prod & Penn.	B	11.0	1,555
4263	9	91	5-Spot	20	180	1,796	River & Prod	F & B	26.9	280
3411	2	3			80	80			5.5	
3412	1	2			92	50				
3413										
3414										
1302	3	3	5-Spot		30	117	Cypress	B	9.0	300
1303	5	5	5-Spot		80	164	Cypress	B	8.0	700
1304	6	9	5-Spot & Line				Prod & Lake	F & B	9.7	900
1305	5	5	Mod. Peripheral				Prod & Lake	F & B	18.9	1,200
2609	2	7		10	60	180	Prod	B		
2610										
2611	6	7	5-Spot	10	35	250	Purchased	F	4.2	450
502	16	8	5-Spot		50	640	Lake & Prod	F & B	0.5	200
1906	1	3	Line Drive	70	70	100	Tar Springs & Prod	B	14.8	
002										
1301	6	6	5-Spot	20	141	141	Cypress	B	10.5	211
703	3	7	Line Dr	4.4	15	125	Prod	B	.3	50

(Continued)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,850	9.6	18.6	64	34.5	5.2 @ 95°F	*Includes primary production since 8-54.	4250
1,550	29.0	17.6	86	32.0	20	*Includes primary production.	4251
1,830				32.8	11 @ 80°F	*Includes primary production since 5-51.	4252
2,000	15.0	19.0	100	37.0			4253
2,800	10.0	15.0	46	37.0		*No injection 8-54 to 9-56.	4254
2,800	11.0	15.0*	50*	35.0		*Estimated.	4255
2,900	15.0	16.0	10	36.0			
2,000	10.0						4256
2,300	7.0						4257
2,175	13.0	19.5	292	30.0	9.2 @ 83°F		4258
2,530	11.6	18.8	259	38.5			4259
						*Dump Flood.	4262
1,695	14.0	19.0	225	29.2	8 @ 32°F	Previously subjected to gas injection. *Includes primary production since 3-53.	1413
2,628	15.5	17.5	106	38.6			4260
2,800	25.0	17.6	152	38.5		*Due to mixed brine problems, wells converted to 100% source (Tar Springs).	4261
1,740	27.0	17.0	40	36.5	10 @ 60°F		2218
1,595	20.0			34.0		*Estimate. †Total oil production.	1222
2,860	7.0					*Dump flood—estimate. †Excluding 1-56 to 12-56. ‡Since 1-1-56	1905
2,850	8.0			32.0		*Controlled dump flood.	1100
2,870	5.0					†Includes primary production since start of flood.	
2,950	6.0	15.0	800			*Includes primary production since 11-56.	318
2,300	Cyp.7.0	Cyp.20.0					328
2,600	T.S. 7.0	T.S. 19.0					
2,650	17.0	19.0	70	37.4	3.9 @ 95°F	*Includes two Calvert wells.	319
2,771	9.2	17.0*	60*	34.2		*Estimate.	309
2,530	7.0						1102
2,602	10.0					*Includes primary production since 10-57.	310
Ros.2,863	Ros.9.0					*Dump flood injection estimated.	1103
Mc.2,856	Mc.6.0					†Includes primary production from 6-55 to 12-56.	
2,600				37.0	4.6 @ 100°F	*Includes primary production since 3-55.	311
2,580	15.0	15.4	17	38.0		*Since 3-56. Pilot flood.	312
2,600	12.0	19.0	60	38.0		*Includes water injected into offset input well, but does not include oil or water production. †Since 1-55.	313
2,650	10.0	19.0	20	36.0			314
2,620	15.0	16.4	16	36.0			315
3,000	5.0			36.0		*Dump flood. †Estimated.	316
2,880	6.0						329
2,093	14.0	11.5	43	36.5		*Corrected to 1957 value.	2604
1,770	28.0	17.9	150	37.0	3.8 @ 93°F	*Since 1-52.	2605
3,400	19.0	16.8	300	36.5		*Since 1-52.	2606
1,950	20.0	15.8	700	37.0		*Since 1-52.	2607
1,825	7.0	16.5	18	37.0	4.6 @ 93°F	*Since 1-52.	2608
	26.0	16.3	28				
2,930	5.0					*Includes primary production from 9-54 to 12-56. †Controlled dump flood.	1010
3,000	8.0			36.0		*Formerly owned by Pure Oil. †Dump flood, unknown. ‡Excludes 4-1-57 through 12-31-57.	3410
2,690	4.7						1306
320	16.0	18.9	73	35.0	12.0 @ 63°F	Previously subjected to gas injection. *1954-57 injection in joint operated wells not included.	700
						*No 1957–58 data available.	701
400	32.0	17.5	56	36.6	8.0 @ 60°F	Previously subjected to gas injection. *Separate plants.	702
497	56.0	21.5	40	33.8	10.5 @ 68°F	Previously subjected to gas injection. *Estimated. †Excluding 1-56 to 12-56.	215
{404	25.0	18.5	45	36.0	8.8 @ 68°F		216
{464	6.0	18.3	66				
						*No 1958 data.	003
2,975	11.8	19.8	97	38.8	3.7	*Corrected to 1957 value.	317
2,214	25.0			33.0			4263
3,000	10.0	18.0				*Includes primary production since 12-53.	3411
3,026	7.0					*Now owned by A. D. Muhlbach. †Temporarily abandoned 1958.	3412
						*No 1958 data available.	3413
						*No 1957–58 data available.	3414
3,200	18.0	21.1	98	38.0		*Corrected by operator.	1302
3,075	25.0	22.0	170	37.5			1303
3,060	14.0	21.0	115	39.0	3.2 @ 90°F		1304
3,120	16.0	19.5	50	38.6	3.5 @ 90°F	No injection 7-56 to 1-58.	1305
1,940						*Previously owned by Slagter. †Estimated.	2609
						*No 1958 data available.	2610
750	20.0	20.3	183	30.0	19.9 @ 68°F	Previously subjected to gas injection.	2611
320	35.0	21.5	86	29.0		*Excludes 1-56 thru 12-56.	502
2,634	9.5						1906
						*No 1958 data available.	002
2,050	31.0	17.1	155	37.4			1301
590	10.0	21.9	231	30.3	10.0 @ 75°F		703

TABLE 16.—ILLINOIS PRESSURE MAINTENANCE PROJECTS

Map no.	General: Pool C=Consolidated	Operator	County	Project U=Unit	Date first injection	Formation
1011	Albion C.	Calvert	Edwards	South Albion Lower Biehl	4–51	Biehl
001	Beaver Creek	Conrey & Conrey	Bond	Wrone Lease	7–53	Benoist
405	Beaver Creek S.	Conrey & Conrey	Clinton	Kneier Ragland	4–56	Benoist
1013	Bone Gap C.	V. R. Gallagher	Edwards	Bone Gap U.	6–52	Waltersburg
2005	Boyd	Superior*	Jefferson	Boyd Repressure	6–45	Benoist
407	Carlyle N.	T. M. Conrey, Jr.	Clinton	Krietemeyer	—	Benoist
4264	Enfield S.	Ryan Oil	White	S. Enfield U. #1	1–55	Aux Vases
406	Germantown E.	Natl. Assoc. Petroleum Co.	Clinton	Germantown	9–56	Devonian
1223	Louden	Carter	Fayette	Louden Devonian	9–43	Devonian
4265	Maunie S.	Natl. Assoc. Petroleum Co.	White	South Clear Pond	6–57	Tar Springs
3958	Mt. Carmel	T. W. George	Wabash	Dunkel-Johnson	10–57	Cypress
3959	New Harmony	T. W. George	Wabash	Keensburg U.	12–58	Cypress
1414	Omaha	Carter	Gallatin	Omaha	10–44	Palestine
4266	Phillipstown	Natl. Assoc. Petroleum Co.	White	Stokes "B" #3	6–56	Benoist
2006	Salem C.	Carter	Jefferson	Dix (R. & P.M.)	1–48	Bethel

TABLE 16.—

Map no.	Development as of 12-31-58: No. of wells Inj.	No. of wells Prod.	Injection pattern	Spacing acres per input well	Productive Acreage: Subjected to inj.	Productive Acreage: Total	Injection water: Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine	Av. bbls. per day per well per ft.	Av. well-head pressure PSI
1011	2	7	Peripheral			119	Prod	B	36.4	
001	1	4		10	50	50	Benoist	B	4.5	750
405	1	5		10	50		Benoist	B	9.0	500
1013	1	9			40	120	Prod	B	11.6	450
2005	4	85	Peripheral		1,564	1,564	Surface & Prod	F & B		
407	1	2		10	20		Benoist	B		
4264	3	5			150	300		F & B	24.1	650
406	1	12		20	20	240	Prod	B	20.7	350
1223	7	45	Peripheral		2,600	2,600	Prod	B	232.6	230
4265	3	6	Line	10	40	60	Prod	B	2.2	500
3958	4	5	5-Spot		160		Well & Prod	F & B		1,200
3959	8	14			280	280	Well	F		0
1414	1	16	Flank		280	280	Prod	B	25.9	260
4266	2	4		10	30	70	Prod	B	15.1	1,300
2006	4	63	Peripheral		1,200	1,200	Penn. & Tar Springs	B	50.3	323

USING WATER INJECTION DURING 1958

Information				Production and injection statistics (thousand bbls.)						
Location		Curtailed during '58		Secondary recovery						Map no.
				Water injection		Oil production		Water production		
Sec.	T.-R.	Inj.	Prod.	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	Total 1958	Cumulative 12-31-58	
35, 36	2S-10E			245	1,271	25.8	609*	255	1,044	1011
1	3S-10E									
36	4N-3W	x		13	47	1.9	16			001
1	3N- 3W			26	47	2.6	65			405
18	1S-14W			84	816	24.2	339	84	816	1013
13, 24, 25	1S- 1E									2005
18, 19, 20, 30	1S- 2E									
23	3N- 3W			36*		4.3	8			407
29, 32	5S- 8E			211	592	52.4	216	93	474	4264
1	1N- 4W			453	1,229	189.7	189.7	452	1,229	406
	8N- 3E			10,696	143,157	388.7	17,018	7,892	129,771	1223
12	6S-10E			29	38	14.5	14.5	29	38	4265
32	1N-12W			158	186	1.1	1.3	1	1	3958
9	2S-13W			3	3	0	0	0	0	3959
33	7S- 8E			161	1,784*	77.5	2,585	160	1,572	1414
4	8S- 8E									
26	4S-10E			88	195	11.1	11.1	88	288	4266
3, 4, 9, 10, 15, 16	1S- 2E			882	6,406	456.1	8,824	760	4,662	2006

(Continued)

Reservoir statistics (average values)						Remarks	Map no.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,080	9.2	16.8	384	32.3	10.4 @ 85°F	*Includes primary production since start of flood.	1011
1,140	8	20.7	708	32.4			001
1,111	8			34			405
2,310	20	18	120	34.6	5.6 @ 85°F		1013
2,065	17.3	17.5	173	39.5	32 @ 90°F	*No data.	2005
1,138						*Estimated.	407
3,260	8	21.5	142		3.5 @ 101°F		4264
2,300	60						406
3,100	18	14.4	41.3	29	6.5 @ 96°F		1223
2,200	12						4265
							3958
							3959
1,700	17	18.9	427	27	17 @ 76°F	*1957 cumulative corrected by operator.	1414
2,858	8			38			4266
1,950	12	16.4	128	39	2.5 @ 87°F		2006

TABLE 17.—ILLINOIS WATERFLOOD

Map no.	Field C=Consolidated	Operator	County	Date first injection	Project U=Unit	General Date abandoned
1014	Albion C	Continental	Edwards	5–43	Stafford	12–56
1015	Albion C	First Nat. Pet. Trust	Edwards	4–52	Brown	12–55
1012	Albion C	Superior	Edwards	7–46	S. Albion U #2	*
3944	Allendale	Ind. Farm Bur.	Wabash	11–53	Woods	6–57
4129	Barnhill C	Wayne Development	Wayne	12–50	Walter	1–55
3942	Berryville C	Phillips	Wabash	9–52	Tarply	2–53
3943	Berryville C	Phillips	Wabash	2–52	Townsend	7–53
217	Casey	Calvan American	Clark	8–53	Shawver	7–54
4267	Centerville E	Lesh	White	6–54	Centerville E	12–55
4246	Centerville E	Sun	White	10–50	E. Centerville	8–57
408	Centralia	Sohio	Clinton	11–51	Copple Town	*
4130	Clay City C	Gulf	Wayne	8–55	Winona	10–56
4228	Concord	Great Lakes Carbon	White	6–53	McClosky	12–56
4229	Concord	Phillips	White	8–53	Dallas	1–57
3945	Friendsville N	Magnolia	Wabash	7–47	J. L. Litherland	9–57
4128	Goldengate C	Cities Service	Wayne	10–53	Goldengate	8–57
4124	Goldengate C	Cities Service	Wayne	8–56	Kletzker	9–58
2200	Lawrence	Calvan American	Lawrence	12–53	Piper	9–56
2229	Lawrence	Calvan American	Lawrence	3–53	Waller	11–55
2205	Lawrence	Duncan	Lawrence	8–56	David	9–58
2230	Lawrence	Ree	Lawrence	10–52	Snyder	55
662	Main C	Petroleum Products Co.	Crawford	9–51		12–56
663	Main C	Ree	Crawford	11–53	Meserve	5–55
628	Main C	Shakespeare	Crawford	5–54	Montgomery	5–58
661	Main C	Skiles	Crawford	7–51	Correll-Curley	9–55
664	Main C	Skiles	Crawford	12–51	Walter-Comm.	12–52
665	Main C	Skiles	Crawford	11–52	Weger	7–56
679	Main C	Wausau Petroleum	Crawford		Highsmith	57
2003	Markham City	Tidewater	Jefferson	8–55	Newton Investment	58
2007	Markham City	Tidewater	Jefferson	8–55	Newton Investment	57
218	Martinsville	J. B. Buchman	Clark	10–52		54
219	Martinsville	Magnolia	Clark	1–51	Carper	2–55
220	Martinsville	Magnolia	Clark	8–50	Casey	2–53
4239	Maunie South	Magnolia	White	11–55	Maunie Coop.	
4230	Maunie South	Magnolia	White	8–47	Tar Springs U	12–57
4268	Maunie South	Magnolia	White	11–49	Tar Springs U #2	55
3946	Mt. Carmel	First Nat. Pet. Trust	Wabash	2–50	Shaw Courter	12–56
3941	Mt. Carmel	First Nat. Pet. Trust	Wabash	4–53	Shaw Courter	12–56
4222	New Harmony C	Skiles	White	5–55	Smith-Davenport	10–57
4269	New Harmony C	Sun	White	3–48	Ford "A"	7–52
4223	New Harmony C	Sun	White	8–47	Greathouse	1–57
3415	Parkersburg C	Calvert	Richland	1–55	Parkersburg	56
4245	Phillipstown C	C. E. Brehm	White	6–52	Phillipstown U "A"	5–57
4232	Phillipstown C	Skiles	White	11–55	L. O. Cleveland	12–56
4270	Phillipstown C	Sun	White	1–53	Phillipstown	3–54
701	Siggins	Cochonour*	Cumberland	1–50	Vevay Park	56
4271	Storms C	Mabee	White	7–51		6–53
222	Westfield	Forest	Clark	6–50	Parker	12–56
221	Westfield	Ree	Clark	8–51	Hawkins	54
1907	Willow Hill E	M. M. Spickler	Jasper	6–52		12–56

PROJECTS REPORTED ABANDONED

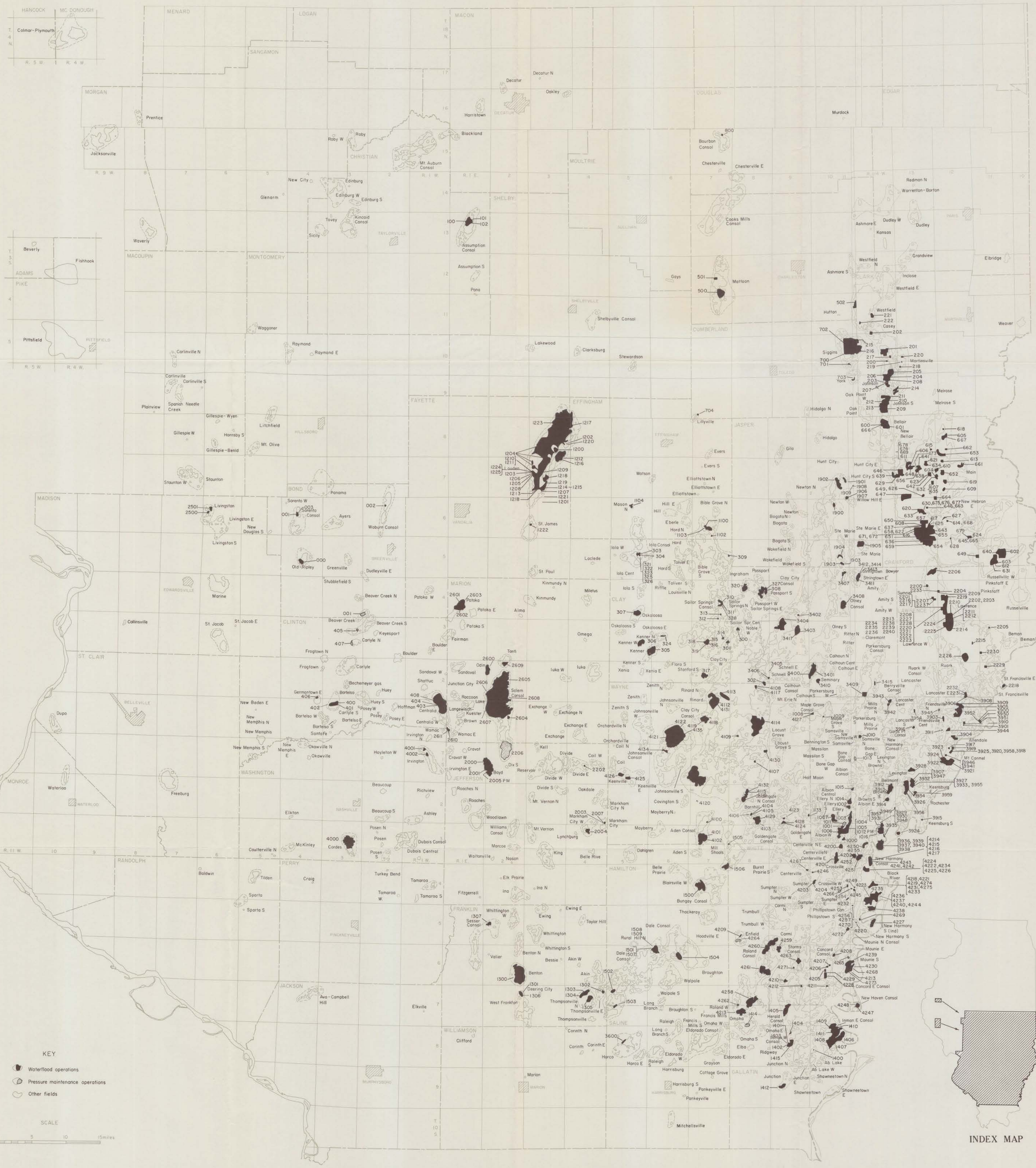
Information			Production and injection statistics (thousand bbls.)			Map no.
Formation	Location		Cumulative water injection	Cumulative secondary oil produced	Cumulative water produced	
	Sec.	T.-R.				
McClosky	13	2S–10E	625	43.1*	637	1014
Aux Vases	6	2S–11E	*			1015
Bridgeport	1, 11, 12	3S–10E	*	*	*	1012
Biehl	20	1N–12W	633	44.8‡	559*	3944
McClosky	26	2S– 8E	144		119	4129
McClosky	2	1N–14W	35	None	103	3942
McClosky	35	2N–14W	50	None	86	3943
Casey	23, 24	10N–14W	49	1.8		217
Rosiclare	12	4S– 9E	*	4.4	4‡	4267
Tar Springs	7	4S–10E	269	39.2	132	4246
Trenton	35	2N– 1W	236	34.0‡	21	408
McClosky	12	1S– 8E	25	None	0.3	4130
Rosiclare & McClosky	28	6S–10E	234*	5.1*	44	4228
Rosiclare & McClosky	28	6S–10E	247	3.0	42	4229
Biehl	1, 12	1N–13W	623	142.1*	282	3945
McClosky	28, 32, 33	2S– 9E	926	7.0*	281	4128
Aux Vases	4	3S– 9E	102	1	10	4124
Cypress	2, 11	4N–13W	146*	5.8‡		2200
Cypress	5, 6	2N–11W	828*	12.3		2229
Paint Creek	8	3N–11W	56	0	8	2205
Cypress	30	3N–11W	16*	0.6*	69*	2230
Robinson	29, 32	8N–12W	445			662
Robinson	11	6N–13W	251	1.2	39	663
Robinson	32, 33	6N–12W	516	18	177	628
	4	5N–12W				
Robinson #4	10	7N–12W	1,207	29.8	227	661
Robinson #1 and #3	1	6N–13W	26	None	29	664
	36	7N–13W				
Robinson	18, 19	5N–11W	777	8.5	109	665
	13, 24	5N–12W				
Robinson	31	6N–12W				679
McClosky	1	3S– 4E	*	2†	7**	2003
McClosky	1	3S– 4E	*	.8‡		2007
Carper	31	10N–13W	283*	None	5*	218
Carper	30	10N–13W	1,111	10.4	10	219
Casey	19	10N–13W	872	2.3	34	220
Tar Springs	24	6S–10E	180	11.2	141	4239
Tar Springs	19, 24, 25	6S–10&11E	4,748‡	792.4*	2,049	4230
Tar Springs	24	6S–10E	639	60.3	209	4268
	19	6S–11E				
Biehl	7	1S–12W	364	68.6	148*	3946
Cypress	7	1S–12W	259	28.4	10*	3941
Cypress	15	4S–14W	147	3.8	2	4222
McClosky	18	5S–14W	58	13.1	1	4269
McClosky	33	4S–14W	1,088	128.7	227	4223
	4	5S–14W				
McClosky	16, 21	2N–14W	107*	None	43*	3415
Penn.	30	4S–11E	311	68.3*		4245
	19, 30	4S–14W				
Tar Springs	36	4S–10E	48	0.1	None	4232
Tar Springs	6	5S–11E	58	None	251	4270
Siggins	25	10N–14W	225	2	103	701
Waltersburg	22	6S– 9E	90	None		4271
"Gas Sand"	30	11N–14W	663	34.4		222
"Gas Sand"	20, 21	11N–14W	265*	2.0*	44*	221
McClosky	36	7N–10E	*	2.1‡		1907

TABLE 17.—

Map no.	Maximum development during operation						Injection water	
	No wells		Injection pattern	Spacing	Productive acreage		Source Sd=Sand Gr=Gravel Prod=Produced	Type F=Fresh B=Brine
	Inj.	Prod.			Subj. injection	Total		
1014	1	1			80	80	Prod	B
1015	1	1	Spot	10	30	20	Hardinsburg	B
1012	*	*			203		Prod	B
3944	5	7		10	147	147	Prod	B
4129	1	2		10	40	40	Cypress	B
3942	1	2			14	30	Prod & Tar Springs	B
3943	1	2			27	30	Prod & Tar Springs	B
217	9	4	5-Spot	4.4	13	215	Shallow Sd	F
4267	1	1			20	20	Tar Springs	B
4246	1	5	Flank		80		Tar Springs & Prod	B
408	2	12		20	160	200	Devonian	B
4130	1	1		12.5	13	50	Tar Springs	B
4228	3	8	Modified Peripheral		140	150	Gr Bed	F
4229	1	3			40	60	Shallow Sd & Prod	F & B
3945	2	3	5-Spot	10	13	40	Shallow Sd	F
4128	2	8	Irregular		159	210	Gr Bed	F
4124	1	2	Irreg.	10	10	30	Cypress Sd	B
2200	4	8	5-Spot	10	13	143.6	Shallow Sd	B
2229	8	8	5-Spot	10	35	625	Gr Bed	B
2205	1	1			20	10	River Gr	F
2230	1	2			10	230	Tar Springs	B
662	4	2	5-Spot	10	10	700	Shallow Sd & Prod	F
663	4	4	5-Spot	10		525	Penn. Sd	B
628	6	6	Mod. 5-Spot	6–10	52	85	Lower Robinson Sd	B
661	18	17	5-Spot	10	180		Creek & Penn. Sd	F & B
664	5	6	5-Spot	10	40		U. Penn. Sd	B
665	9	11	5-Spot	10	90	110	Creek & Prod	F & B
679								
2003	1	1		40	40	40	Cypress	B
2007	1	1	Dump		40	40	Cypress	B
218	2	6	5-Spot	20	40	40	Shallow Sd	F
219	4	1	5-Spot	10	10	50	Gr Bed	F
220	8	3	5-Spot	10	23	110	Gr Bed	F
4239	1	3	Irreg.		18	80	Gr & Prod	F & B
4230	2	4	5-Spot	20	138	230	Gr & Prod	F & B
4268	3	2	5-Spot	20	50	50	Gr Bed	F & B
3946	1‡	2	Spot	10	30	30	Water Well & Prod	F & B
3941	1	4	Spot	10	50	50	Water Well	F
4222	1	2	Irreg.		30	30	Tar Springs	B
4269	1	1	Spot		40	40	Gr Bed	F
4223	1	1			50		Gr Bed	F
3415	2	7		20	160	160	McClosky	B
4245	1	5	Irreg.		90	90	Penn. Sd	B
4232	1	2	Irreg.		30	30		
4270	1*	9			10		Prod	B
701	2	4	5-Spot	4.4	10		Surface & Prod	F & B
4271	1	2			40	40	Penn. Sd	B
222	9	12	5-Spot	2.5	20		Gr Bed	F
221	15	8	5-Spot	4.4	40	360	Devonian & Prod	F & B
1907	1	1			20	20	Prod	B

(Continued)

Reservoir statistics (average values)						Remarks	Map no.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
3,222	4.0	16.3	898	39.0		*Includes primary production to 12-31-56.	1014
3,005	21.0					*Dump flood.	1015
1,900	20.0	19.7	304	32.5	6.3 @ 95°F	*Abandoned and converted to disposal project in 1952, but reinstated as an active flood during 1955. See table 15.	1012
1,520	15.0			28.4	8.9 @ 32°F	*1-1-55 to 7-1-57. ‡Includes primary production to 12-31-56.	3944
3,450	18.0						4129
2,890	10.0						3942
2,890	10.0						3943
450	21.5	22.4	108	31.8	13.6 @ 65°F		217
3,366	7.0			43.0		*Dump flood. ‡From 1-1-55 to 12-4-55.	4267
2,530	6.0			36.6			4246
3,950	22.0	10.0		39.8	2.7	*Pilot flood, reported as abandoned in March, 1953. ‡Includes primary production from 11-51 to 3-53.	408
3,115	8.0	12.0		40.1			4130
2,980	22.0			37.5		*As of 1-1-55.	4228
2,960	30.0	15.0	50	36.0			4229
1,620				35.6		*Includes primary production to 12-31-56.	3945
3,308	8.0			34.0		*Corrected figure.	4128
3,242	10	15	10	37			4124
1,520	25.0	20.8	33	38.6	3.5 @ 86°F	*As of 5-1-56. ‡As of 8-15-56.	2200
1,535	50.0	18.5	70	39.5	5.0 @ 85°F		2229
1,600	6						2205
1,580	25.0	21.2	125	38.6	4.1 @ 85°F	*As of 1-1-55.	2230
1,000	15.0	20.0	75	37.5	7.3 @ 76°F		662
950	22.7	21.9	89		10.0 @ 79°F		663
975	26	22.6	150	28.3	23 @ 71°F		628
1,035	20.0	22.2	100	33.0	13.5		661
950	10.0	20.1	93	36.0	12.5 @ Reservoir temperature		664
1,010	15.0						665
900	20.0	17.0	37				665
							679
3,080	6					*Dump flood. **As of 1-1-57. †Estimated; includes primary production since 1-56.	2003
3,080	6.0					*Dump flood. ‡Total production since 1-1-56.	2007
1,346	40.0	16.0	11	30.0		*As of 1-1-54.	218
1,334							219
464							220
2,275							4239
2,270				37.3	4.6 @ 89°F	*Includes primary production to 12-31-56. ‡Corrected figure.	4230
2,275							4268
1,375	16.0			40.2	4.7 @ 70°F	*As of 1-1-56. ‡During 1956, injection well used as a straight disposal well.	3946
2,050	12.0					*As of 1-1-56.	3941
2,630	10.0	17.7	145				4222
2,900	7.0			38.0			4269
2,900	5.0			36.9			4223
3,062	10.0					*As of 1-1-56.	3415
1,912	23.0	13.0	36	38.0	4.5 @ 84°F	*Includes primary production to 12-31-56.	4245
2,300	12.0						4232
2,248	10.0			34.5		*Abandoned after unsuccessful input well fracture treatment.	4270
600	16	20.3	349	30.1		*Formerly Leland Fikes.	701
2,241	15.0						4271
270	25.0	17.9	153	28.1	54.0 @ 60°F	Previously subjected to gas injection.	222
290	30.0	22.0	120	30.0	28.0 @ 62°F	*As of 1-1-54.	221
2,615	10.0					*Dump flood, not in operation during 1956. ‡As of 1-1-55.	1907



WATERFLOOD AND PRESSURE MAINTENANCE OPERATIONS IN ILLINOIS DURING 1958

OIL AND GAS FIELDS IN ILLINOIS

JAN. 1, 1959

KEY

- Oil field, producing
- Oil field, abandoned
- Gas field, producing
- Gas field, abandoned

SCALE 0 5 10 15 miles

INDEX MAP